

DP50710-00 / 01  
DP50740-00 / 02 / 03  
DP50741-01

with panel # MD-50H13NBE

## Suggestions

The Pwr Bd. is seldom bad.

If the Pwr LED is turning OFF in 4-5 sec., these are the most common failures on the SC & SS Bds., If any are shorted, please replace the board.

### SC

D451  
D481  
Q661  
Q401  
Q402  
Q421  
Q422

### SS

Q001  
Q002  
Q021  
Q022

**note:** Unplugging any power cable from the SMPS to isolate the defective PCB will not work on this Panasonic panel.  
Unplugging any of the power cables will cause the SMPS to shut down.

**a) Unplug LVDS Cable (40 pin connector) from Main to Digital "D" Bd. (D5 connector) behind Main:**

*This will eliminate the Main Bd., and see if the SMPS will power ON automatically, and remain ON.*

Plug the AC Cord to power (do not push the Pwr Key on the TV) and see if the SMPS will power ON.

If the SMPS powers ON and remains ON, then the Main Bd. should be tried. If the SMPS continues to shutdown then resistance checks (#1-#12) below should be done.

*note: This panel has a self test mode, and unplugging the LVDS starts the self test. No raster is displayed, because a special jig is needed to activate the raster & video.*

**RESISTANCE CHECKS TO POSSIBLY ISOLATE DEFECTIVE PCB**

Location of connectors is  
on page #2

- 1) Is pin #1 or #2 (55-60V) of (P35 connector) shorted to chassis Gnd?  
yes, shorted = PDP Panel N/G  
not shorted = go to step #2
- 2) Is Pin #5 (5V) of (P25 connector) shorted to chassis Gnd?  
yes, shorted = go to step #3  
not shorted = go to step #4
- 3) Disconnect (p25 connector)  
Is Pin #5 (5V) of (P25 connector) shorted to chassis Gnd?  
yes, shorted = SMPS N/G  
not shorted = go to step #4
- 4) Disconnect (SC20 connector)  
Is pin #30 (5V) of SC20 connector shorted to chassis Gnd?  
yes, shorted = SC Bd N/G  
not shorted = go to step #5
- 5) Disconnect (SS23 connector)  
Is pin #1 (5V) of SS23 connector shorted to chassis Gnd?  
yes, shorted = SS Bd N/G  
not shorted = go to step #6

Please re-install all PCB mounting screws whenever a board is changed, and before re-testing the TV. The ground screws are needed to prevent damage to the PCB.

After working on TV, if it has several horizontal lines or bars, please try reseating the flat ribbons going to the SU & SD Bds.

Reconnect P25, SC20, & SS23 Connectors

- 6) Disconnect (SC2 connector)  
Is TPVSUS (SC2, pin #1, 193V) on SC Bd. Shorted to chassis Gnd?  
yes, shorted = SC Bd. N/G  
not shorted = go to step #7
- 7) Reconnect SC2 and disconnect (SS11 connector)  
Is TPVSUS (SS11, pin #1, 193V) on SS Bd. Shorted to chassis Gnd?  
yes, shorted = SS Bd. N/G  
not shorted = Power ON TV, and check TPVSUS on SC Bd. for 193V before shutdown  
If no output, = SMPS N/G  
If 193V OK is before shutdown, SC Bd. may be defective (can not be sure)

Reconnect SS11 Connector

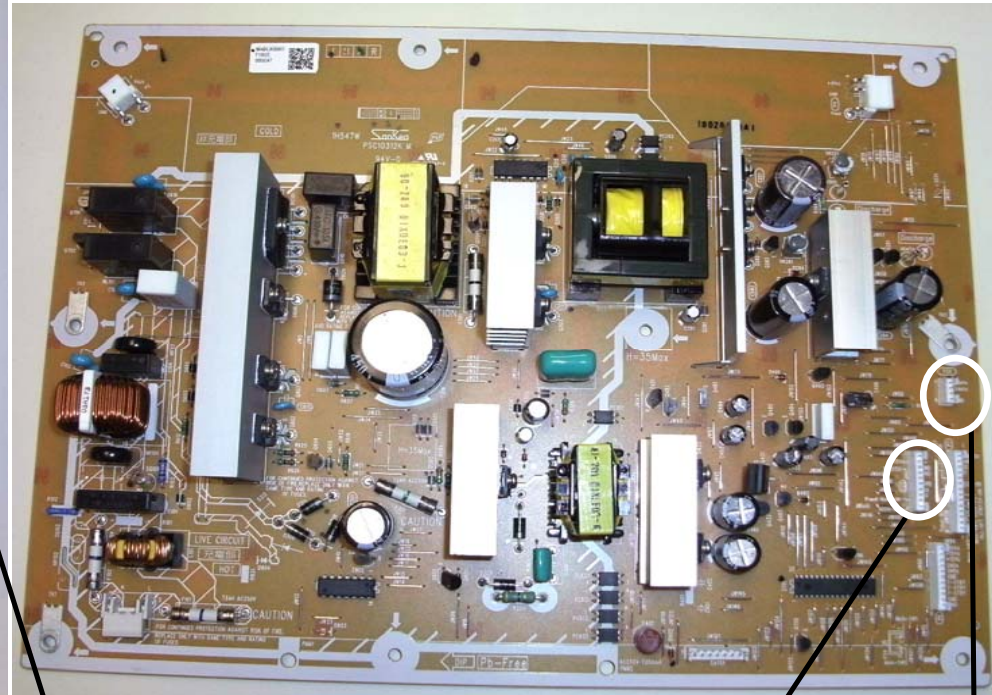
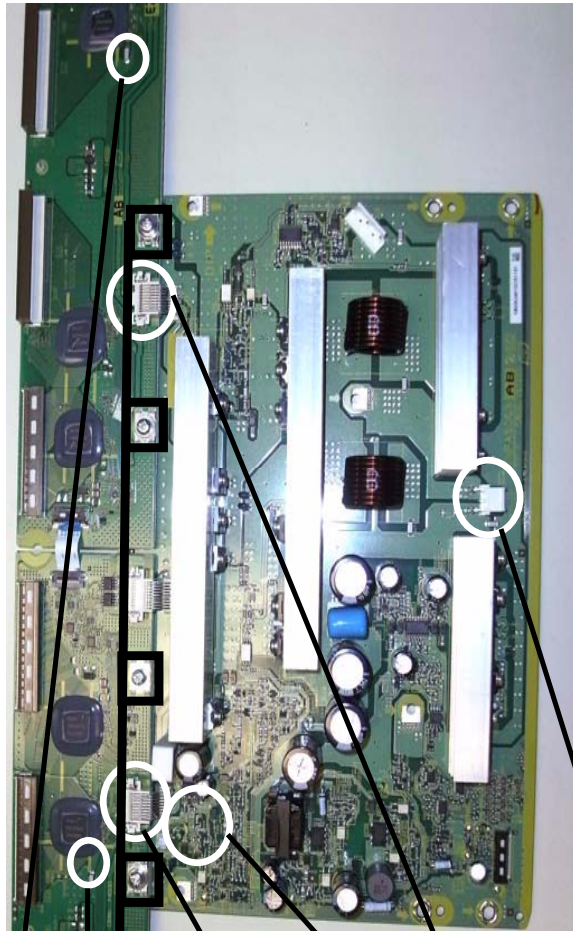
- 8) Is TPSC1 (143V) shorted to base pattern of SU/SD Bd?  
Base Pattern Test Points are on attached page (please do not use chassis Gnd)  
yes, shorted = go to step #9  
not shorted = go to step #11, not necessary to check #9 - #10
- 9) Disconnect SU41 connector  
Is TPSC1 shorted to base pattern of SU/SD Bd?  
not shorted = SU Bd. may be defective  
yes, shorted = go to step #10
- 10) Reconnect SU41 and disconnect SD42 connector  
Is TPSC1 shorted to base pattern of SU/SD Bd?  
not shorted = SD Bd. may be defective  
yes, shorted = SC Bd. may be defective
- 11) Measure resistance across C956 (143V across cap.) on SD Bd.. If resistance is only a few ohms, the SD BD. is defective.
- 12) Measure resistance across C907 (143V across cap.) on SU Bd.. If resistance is only a few ohms, the SU BD. is defective.

If you can not find anything wrong and you suspect the panel is shorted, you can unplug the eight flat ribbons from the panel to the buffer bds. (SU & SD) and see if the SMPS will remain ON. You can not unplug the flat ribbons to the Sustain Drive (SS) Bd. (if you unplug the flat ribbon/s to the SS Bd. the panel will shut down). If all PCBs and other connections are OK, the SMPS will power ON and have all voltages with these ribbons unplugged. If the SMPS should remain ON with the ribbons unplugged, you should re-connect them and then verify that the SMPS still shuts down when they are connected.  
*note: The SMPS will remain ON, if one or more of the flat ribbons are unplugged from the panel to the buffer bds. (SU & SD), if the PCBs and other connections are OK.*

SC Bd.

SMPS

SS Bd.



C907  
C956  
TPSC1  
SC41  
SC42

SC2  
TPVSUS

P25

P35

SS23

SS11  
TPVSUS

**BASE PATTERN TEST POINTS:**

4 screws total: 2 screws through SU & SC Bds.,  
and 2 screws through SD & SC Bds.  
(these screws are not chassis ground)

← VERY IMPORTANT

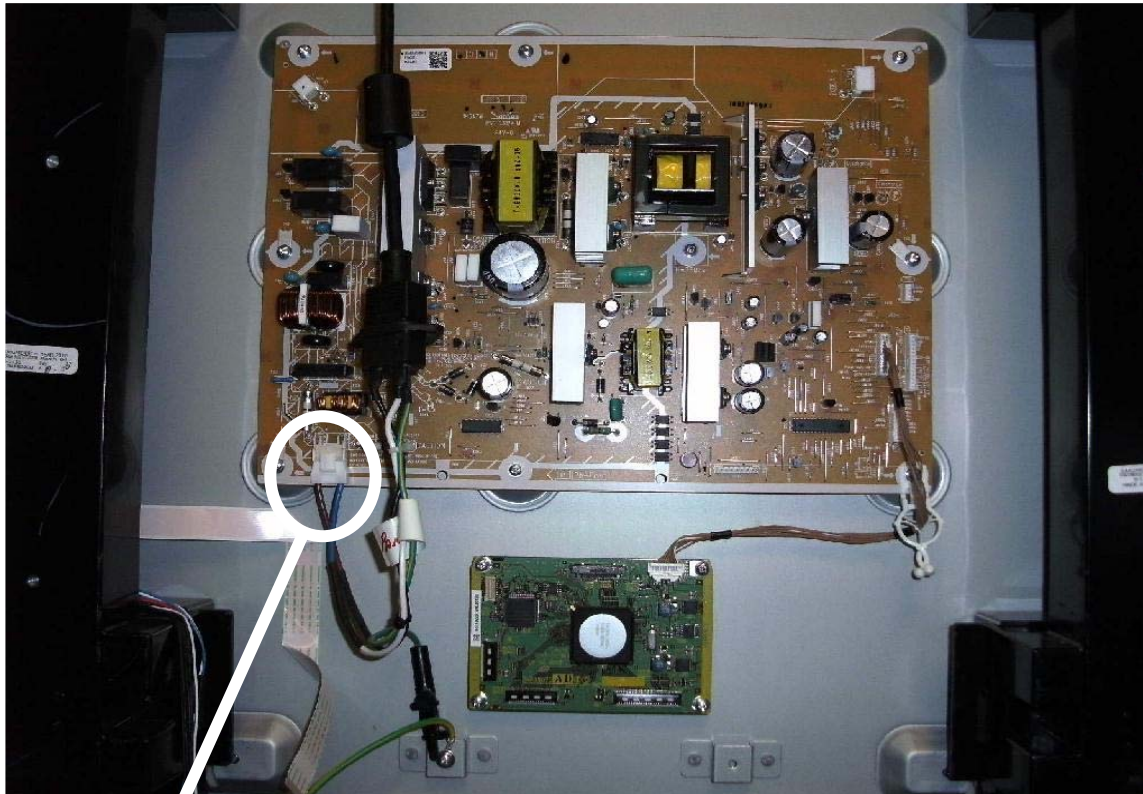
p#2  
DP50710-00 / 01  
DP50740-00 / 02 / 03  
DP50741-01  
11/04/10



**IF YOU BELIEVE THE SMPS IS DEFECTIVE**

The SMPS can be checked, but all cables & flat ribbons from the SMPS & Digital Processor PCB must be unplugged. The only exception is the cable from D25 (D Bd.) to P25 (SMPS) must be connected. With everything disconnected except this one cable, and when power is applied to the SMPS, the SMPS should turn ON.

If the SMPS is working OK, please reconnect all connectors to the SMPS & Digital Processor. If one of the other PCBs is defective, it is possible to damage the SMPS, w/o the flat ribbons connected to the Digital Processor.

**SMPS & Digital Processor**

**Apply power to the SMPS.**



No cables attached to SMPS or Digital Bd., except cable from D25 to P25.

These voltages should be present:

Connector:

|    |    |       |
|----|----|-------|
| P2 | p1 | 191.2 |
|    | p2 |       |

|    |    |     |
|----|----|-----|
| P7 | p1 | 5.0 |
|    | p2 |     |

|     |    |      |
|-----|----|------|
| P25 | p1 | 15.5 |
|     | p2 | 15.5 |

|    |     |      |
|----|-----|------|
| P6 | p1  | 15.5 |
|    | p2  | 15.5 |
|    | p3  |      |
|    | p4  |      |
|    | p5  |      |
|    | p6  |      |
|    | p7  |      |
|    | p8  |      |
|    | p9  |      |
|    | p10 |      |
|    | p11 |      |

|    |     |     |
|----|-----|-----|
| P7 | p1  | 5.0 |
|    | p2  |     |
|    | p3  |     |
|    | p4  |     |
|    | p5  |     |
|    | p6  |     |
|    | p7  |     |
|    | p8  |     |
|    | p9  |     |
|    | p10 |     |
|    | p11 |     |

|     |     |      |
|-----|-----|------|
| P25 | p1  | 15.5 |
|     | p2  | 15.5 |
|     | p3  |      |
|     | p4  |      |
|     | p5  | 5.0  |
|     | p6  |      |
|     | p7  |      |
|     | p8  |      |
|     | p9  | 3.0  |
|     | p10 |      |

|     |    |       |
|-----|----|-------|
| P11 | p1 | 191.2 |
|     | p2 |       |
|     | p3 | 15.5  |

|     |    |      |
|-----|----|------|
| P35 | p1 | 55.5 |
|     | p2 | 55.5 |
|     | p3 |      |
|     | p4 |      |



FILE NO.

## SERVICE MANUAL

## Remote Control Digital Color Television

**DP50741** (U.S.A.)  
(CANADA)

ORIGINAL VERSION



**Chassis No. P50741-01**

**NOTE:** Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual.

**If the Original Version Service Manual Chassis No. does not match the unit's,** additional Service Literature is required. You **must** refer to "Notices" to the Original Service Manual prior to servicing the unit.

**Servicing should be performed by only trained and qualified service personnel.**

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### Specifications

|                               |                                                                                |
|-------------------------------|--------------------------------------------------------------------------------|
| POWER RATING .....            | 120VAC<br>270 W (AVG.)                                                         |
| ANTENNA INPUT IMPEDANCE ..... | 75Ω<br>UHF/VHF/CATV<br>DIGITAL                                                 |
| RECEIVING CHANNEL .....       | 2 - 13 (VHF),<br>14 - 69 (UHF),<br>01, 14-94, 95-135 (CATV)<br>1-135 (DIGITAL) |
| REMOTE READY .....            | 48 KEY REMOTE CONTROL                                                          |
| SOUND OUTPUT .....            | 10.0 W/CH                                                                      |
| INTERMEDIATE FREQUENCY        |                                                                                |
| PICTURE IF CARRIER .....      | 45.75MHz                                                                       |
| SOUND IF CARRIER .....        | 41.25MHz                                                                       |
| COLOR SUB CARRIER .....       | 42.17MHz                                                                       |
| CABINET DIMENSIONS            |                                                                                |
| WIDTH .....                   | 1238mm                                                                         |
| HEIGHT .....                  | 838mm                                                                          |
| DEPTH INCLUDING BASE .....    | 283mm                                                                          |

# SAFETY INSTRUCTIONS

## SAFETY PRECAUTIONS

**WARNING:** The chassis of this receiver has a floating ground with the potential of one half the AC line voltage in respect to earth ground. Service should not be attempted by anyone not familiar with the precautions necessary when working on this type of equipment.

*The following precautions must be observed:*

1. An isolation transformer must be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. Comply with all caution and safety-related notes provided inside the cabinet, on the chassis, and on the back.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as control knobs, adjustment covers, shields and barriers.
4. Before replacing the back cover of the set, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any television to the customer, the service technician must perform the following safety checks to be sure that the unit is completely safe to operate without danger of electrical shock.

## ANTENNA COLD CHECK

Remove AC plug from the 120 VAC outlet and place a jumper across the two blades. Connect one lead of an ohmmeter to the jumpered AC plug, and touch the other lead to each exposed antenna terminal (UHF and VHF antenna terminals). The resistance must measure between 1M ohm and 5.2M ohm. Any resistance value below or above this range indicates an abnormality which requires corrective action.

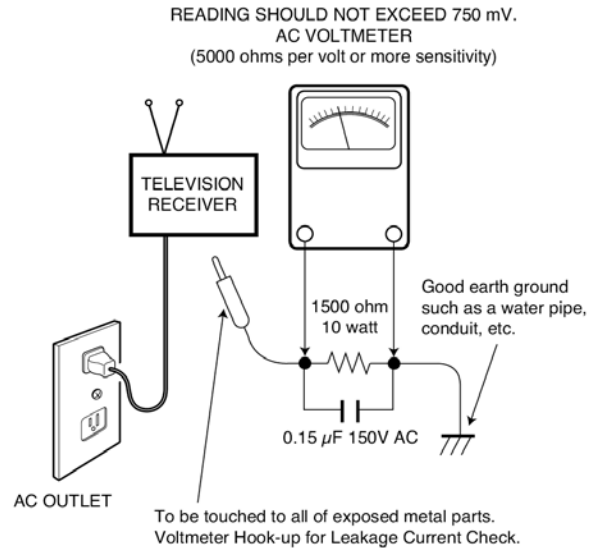
## LEAKAGE CURRENT CHECK

Plug the AC line cord directly into a 120 VAC outlet. (Do not use an isolation transformer for this check.) Use an AC voltmeter, that has 5000 ohms per volt or more sensitivity. Connect a 1500 ohm 10 watt resistor, paralleled by a 0.15  $\mu$ F 150 VAC capacitor, between a known good earth ground (water pipe, conduit, etc.) and all exposed metal parts of the cabinet (antennas, handle bracket, metal cabinet, screw heads, metal overlays, control shafts, etc.). Measure the AC voltage across the 1500 ohm resistor. The AC voltage should not exceed 750 mV. A reading exceeding 750 mV indicates that a dangerous potential exists. The fault must be located and corrected. Repeat the above test with the receiver power plug reversed.

**NEVER RETURN A RECEIVER TO THE CUSTOMER WITHOUT TAKING THE NECESSARY CORRECTIVE ACTION.**

## PRODUCT SAFETY NOTICE

When replacing components in a receiver, always keep in mind the necessary product safety precautions. Pay special attention to the replacement of components marked with a ⚠ in the parts list and in the schematic diagrams. To ensure safe product operation, it is necessary to replace those components with the exact same PARTS.



## SERVICING ELECTROSTATICALLY SENSITIVE DEVICES

Semiconductors (solid-state devices) that can be damaged by static electricity are referred to as Electrostatically Sensitive (ES) devices. Examples of typical ES devices are: Integrated Circuits (IC), Field-Effect Transistors (FET), and "chip" components. The following techniques should be observed strictly, to reduce the occurrence of semiconductor damage due to electrostatic discharge.

1. Immediately prior to handling any semiconductor component or an assembly containing a semiconductor device or devices, discharge the electrostatic buildup on your body by touching a known earth ground. You may also obtain and wear a commercially available discharging wrist strap device.

**CAUTION:** Be sure to remove the wrist strap before applying power to any unit being serviced.

2. After removing an ES equipped assembly, place it on a conductive surface, such as, aluminum foil, to prevent buildup or exposure to static electricity.
3. Use only grounded-tip soldering irons to solder or unsolder ES devices.
4. Use only anti-static solder removal devices. Some suction-type devices can generate static electricity adequate to damage ES devices.
5. A replacement ES device will come packaged in protective material (conductive foam, aluminum foil, or some comparable conductive material). Do Not remove an ES device from its protective packaging unless you are prepared to install it immediately.
6. Precisely prior to removing an ES device from its protective packaging, touch the protective packaging to the chassis or assembly in which the device will be installed.

**CAUTION:** Be sure that no power is applied to the chassis or circuit assembly.

7. Incidental body movements, such as, lifting a foot from a carpeted floor or the rubbing of fabric together can generate static electricity sufficient to damage ES devices. Therefore, minimize all body movements while handling exposed (unpacked) ES devices.

# SERVICE ADJUSTMENTS

## GENERAL

This set has an On-screen Service Menu system included in the CPU that allows remote operation for most of the service adjustments.

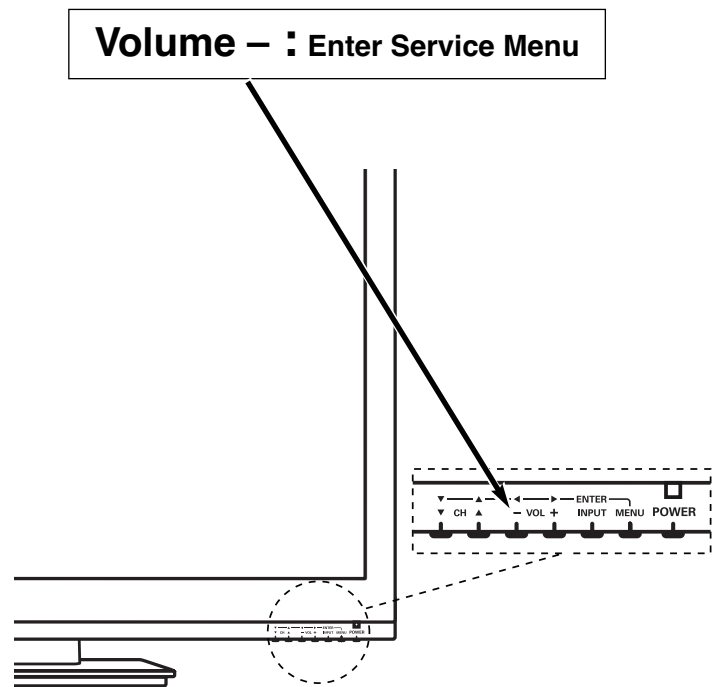
## ON-SCREEN SERVICE MENU SYSTEM

### 1. Enter the Service Menu:

- Turn off the receiver and disconnect the AC power supply.
- While pressing the Volume (≡) button on the television, reconnect the AC power supply. The Service Menu will now appear. The remote can now be used to make adjustments. See Figure 1 below.

| ITEM NO. | TITLE         | HEX DATA |      |     |     |
|----------|---------------|----------|------|-----|-----|
| Index    | ParameterName | Value    | Def. | MIN | MAX |
| 1        | FACTORY_VOL   | 0x21     | 48   | 0   | 255 |

Figure 1. Service Menu Display

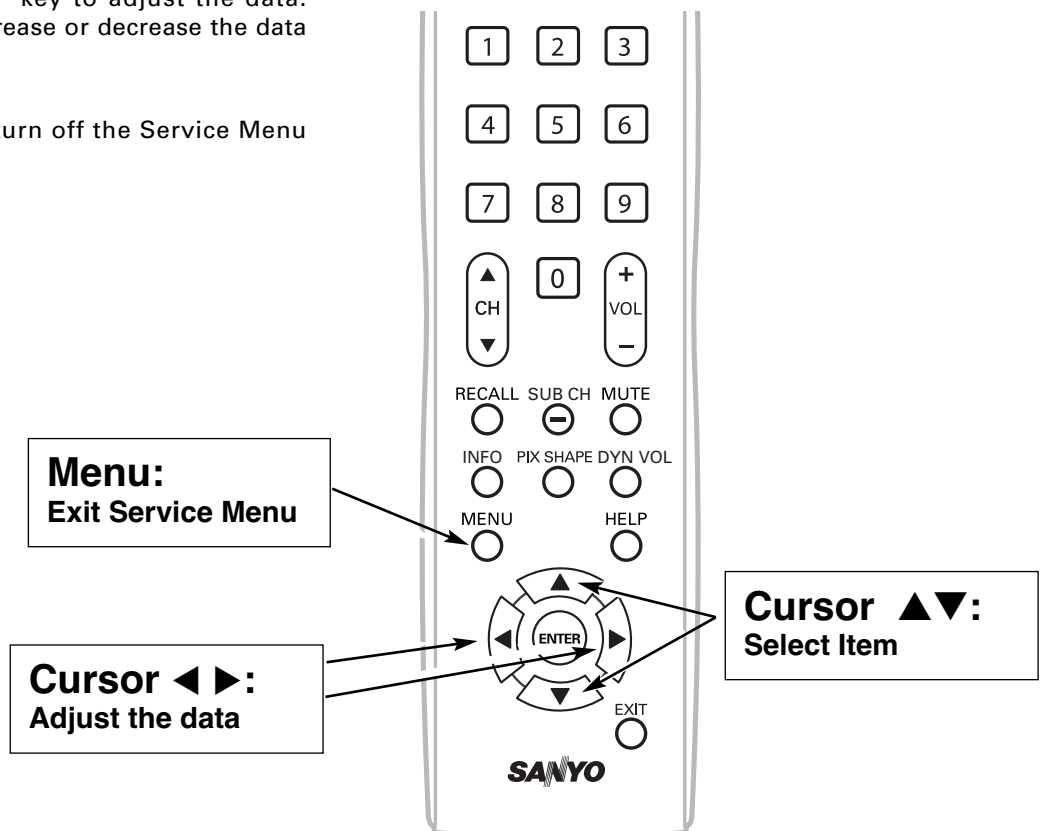


### 2. Service Adjustments:

- Press the Cursor ▲ and ▼ key to select the desired service menu item you want to adjust. See page 4 for the On-screen Service Menu.
- Use the Cursor ◀ or ▶ key to adjust the data. The ◀ or ▶ key will increase or decrease the data sequentially.

### 3. Exit from the Service Menu:

- Press the **MENU** key to turn off the Service Menu display.



# ON-SCREEN SERVICE MENU

**Table 1. ON-SCREEN SERVICE MENU**

When IC801 (EEPROM) is replaced, check the bus data to confirm they are the same as below. See page 3 for On-Screen Service Menu access and adjustments.

| No. | Title | Initial Data | Note                          |
|-----|-------|--------------|-------------------------------|
| 1A0 | MUTE  | A0h          | Audio mute at Power ON        |
| 086 | VOL   | 30h          | Volume setup inspection       |
| 087 | OP1   | 00h          | Option 1 Data (HDMI)          |
| 088 | OP2   | 1Bh          | Option 2 Data (Display Panel) |
|     |       |              |                               |
| 101 | 1R00  | 00h          | ROM Correction Data           |
| 102 | 1R01  | 00h          | ROM Correction Data           |
| ↓   | ↓     | ↓            | ↓                             |
| 197 | 2R47  | 00h          | ROM Correction Data           |
| 198 | 2R48  | 00h          | ROM Correction Data           |

NOTES: Option 1 and Option 2 data is initial and can be set according to adjustment information.  
Option 2 Data (Display Panel)

## PROGRAM CODES

The microprocessor used in this model is a multi-purpose type and is used in several different models. To ensure proper operation and the correct features for your particular model, the program codes must be correct.

**Note 1. Option Data 1 (No. 2 OP1) should be hexadecimal 00.**

See 2 above. If this program code is wrong the TV will not operate properly.

**Note 2. Option Data 2 (No. 3 OP2) should be hexadecimal 1B.**

See 3 above. If this program code is wrong the TV will not operate properly.



# POWER FAILURE CIRCUIT

CPU (IC800) is programmed so the set will go to standby mode when there is circuit failure as described below. (Refer to "Block Diagram Power Lines".)

This unit is equipped with a Power Failure Detector function included in the CPU which checks for an abnormal condition in the chassis power supplies.

If, while the power is on, a failure is caused by any of the following that results in a low voltage supply, the CPU will turn the unit off in 1.5 seconds to prevent further damage:

- Failure within the power supply circuits.
- A short circuit in the load side from the supply.

**Power Failure:** Detected voltage failure for circuit.  
(Connected to IC800 pin 48 and pin 23.)

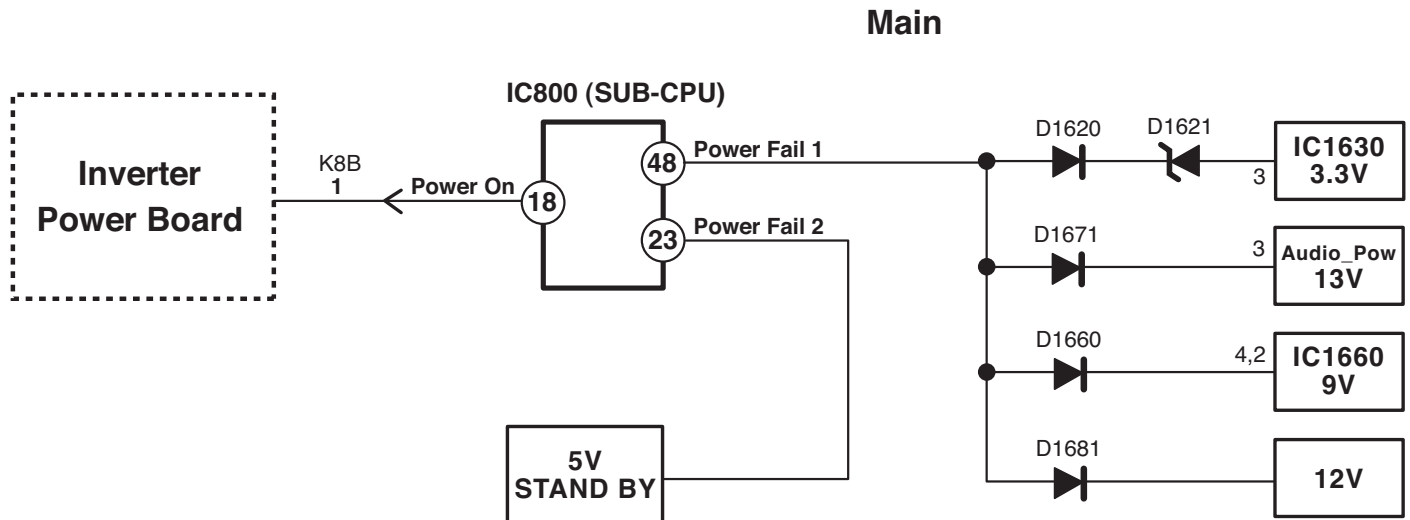
(Normal: High; Failure: Low)

If, while the power is off, the power is switched on and any of these failures remains uncorrected, the CPU will shut off the power within three seconds.

*Check the following if the unit is turned off by the power failure detector.*

1. Disconnect the AC power cord (120V AC line) for a short time.
2. Connect a DC Voltmeter to the circuits shown below.
3. Press the Power key and check for the proper voltage supplies.
4. If any of these voltages is low, the power failure detector should turn the unit off within three seconds.
5. Check all circuits shown below.

**Note:** If power failure is detected 3 times in 15 minutes, the set will enter the standby mode and cannot be switched On. To reset the operating programs of the CPU it is necessary to disconnect the AC cord for a short time.



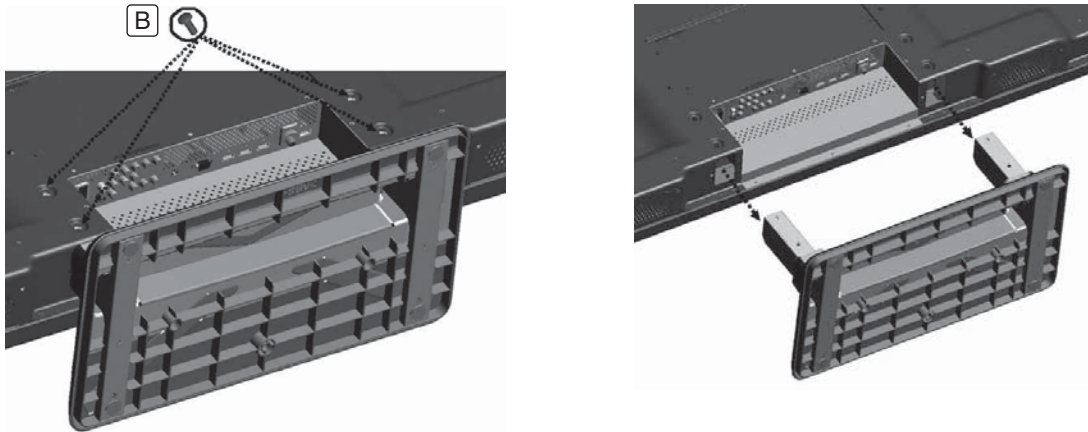
# MECHANICAL DISASSEMBLY

## CAUTION:

This PDP TV uses several different kinds of screws. Using the correct screw is necessary to prevent damage. Lead wires must be redressed to their previous locations after servicing. The Earth sheet and gasket are provided to prevent interference to other radio and television receivers. The Earth sheet and gasket should be returned to its previous position after servicing.

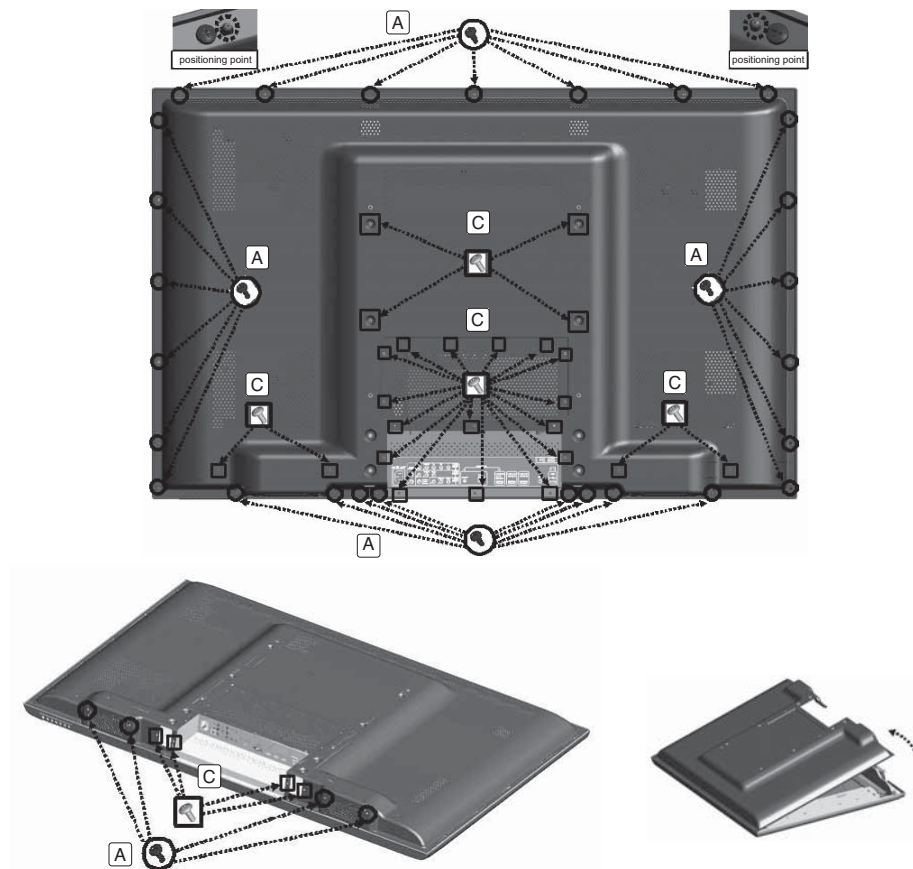
## STAND REMOVAL

Position TV face down on a padded or cushioned surface to protect the screen and finish. Remove 4 screws (B:6X16) and lift up TV from the stand.



## BACK CABINET REMOVAL

Remove 59 screws to take the back cabinet off.  
(A:4x10, 31 pcs.; C:4x8, 28 pcs.)



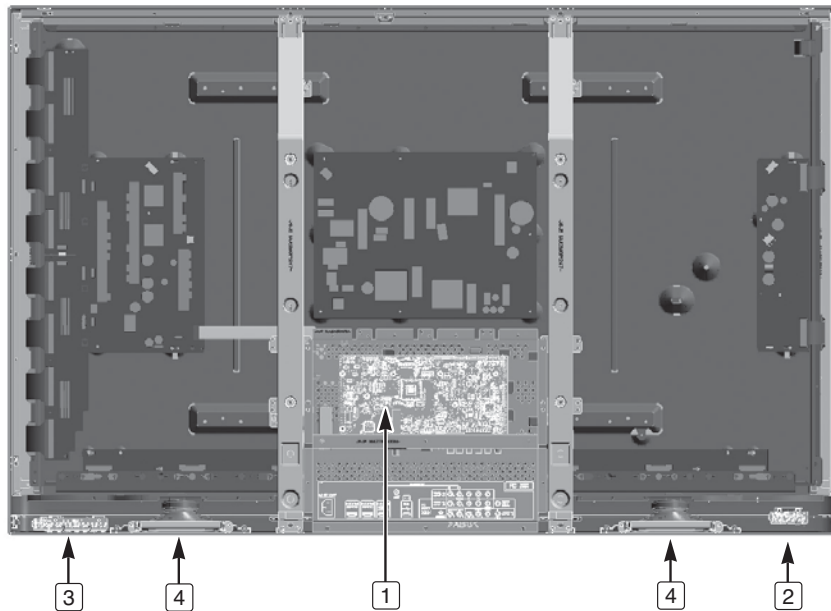
# MECHANICAL DISASSEMBLY (Continued)



## ELECTROSTATICALLY SENSITIVE DEVICES

Many solid-state devices (especially Integrated Circuits) are Electrostatically Sensitive, and, therefore, require special handling techniques as described under "Servicing Electrostatically Sensitive Devices," on page two in this service literature.

## BOARD LOCATIONS



**1: Main (Digital) Board**

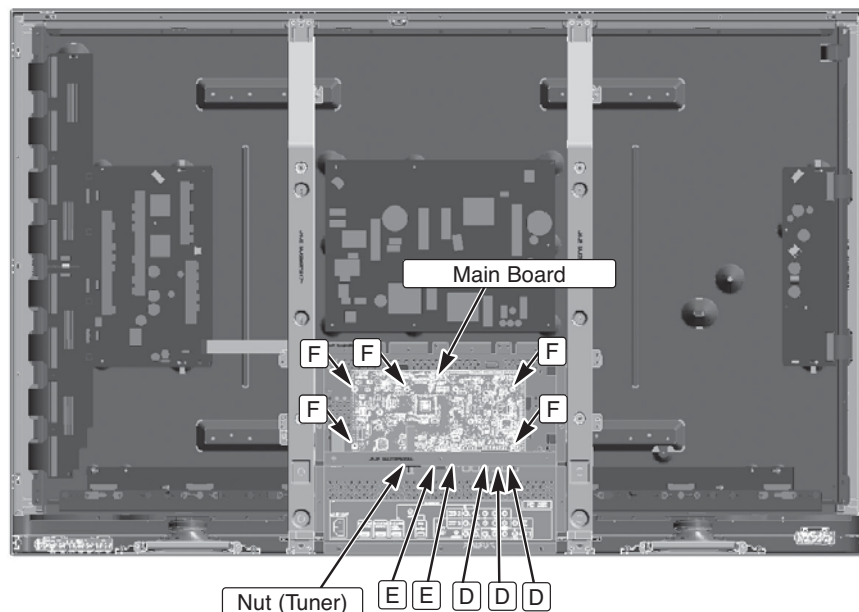
**2: RC LED Board**

**3: KEY SW Board**

**4: Speakers**

## ANALOG AND MAIN BOARD REMOVAL

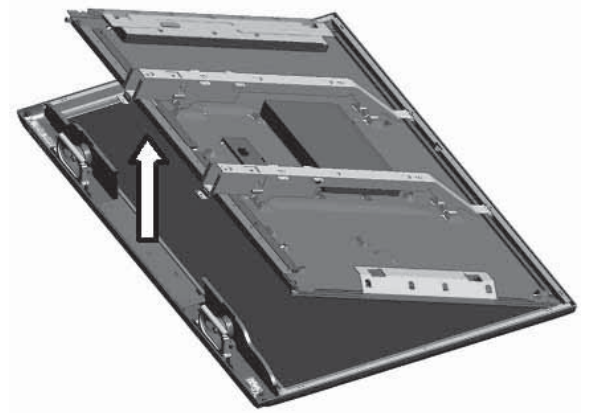
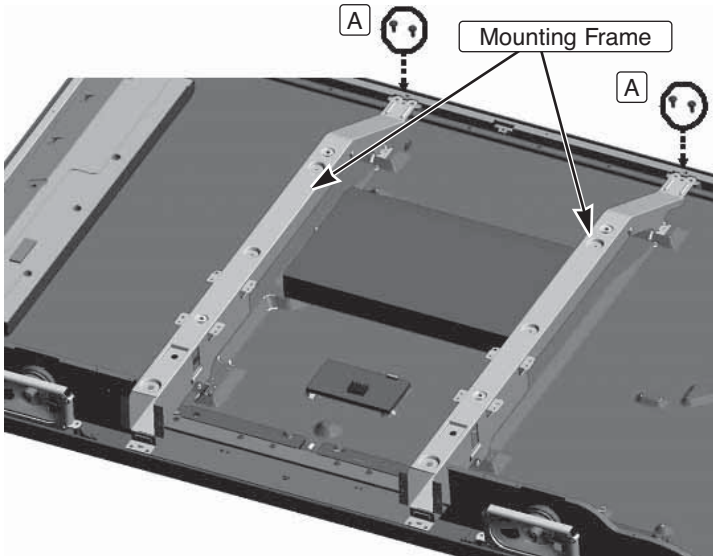
Remove 10 screws (D: 3X10, 3pcs; E: PC terminal nuts, 2pcs; F: 3X6, 5pcs) and 1 Nut (Tuner) to take the Main Board off.



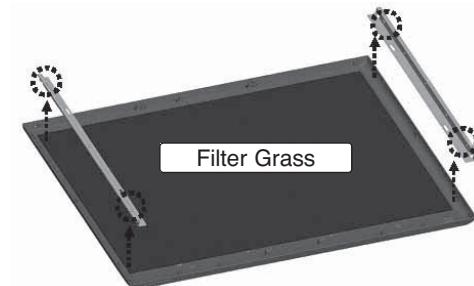
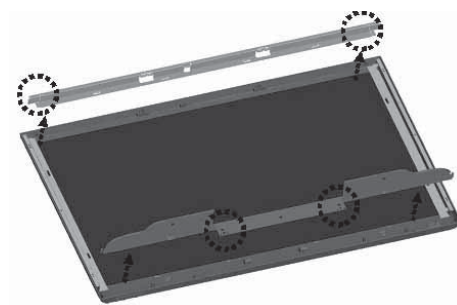
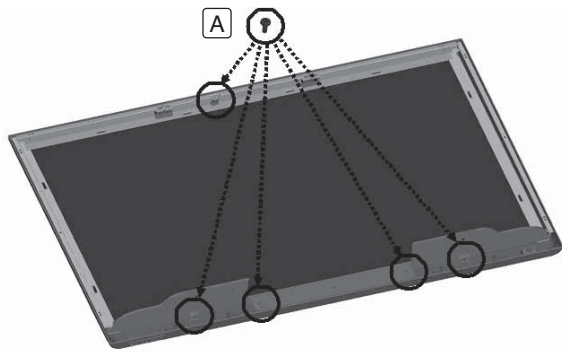
## MECHANICAL DISASSEMBLY (Continued)

### FILTER GLASS REMOVAL

1. Remove 4 screws (A:4x10) to take the panel module and panel holders (Mounting Frames) with boards off.



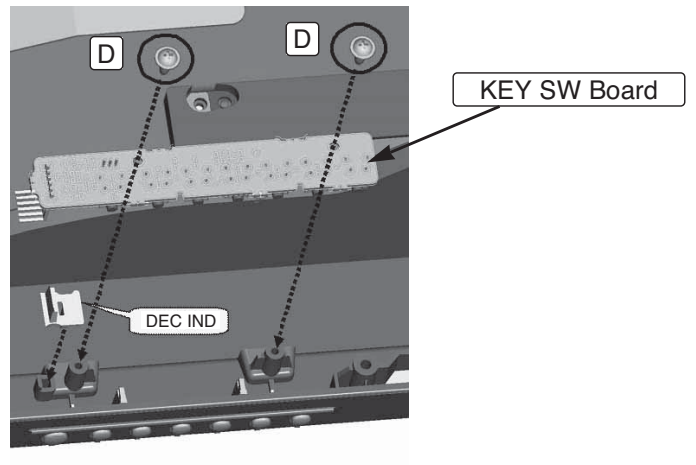
3. Remove 5 screws (A:4x10) to take the shield front (4 pcs) and the filter glass off.



## MECHANICAL DISASSEMBLY (Continued)

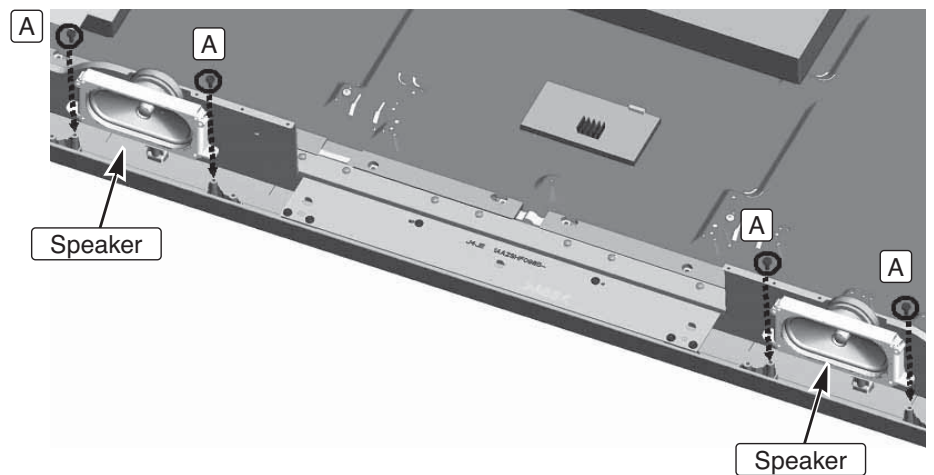
### KEY SW BOARD REMOVAL

Remove 2 screws (D:3x10) to take the key sw board off.



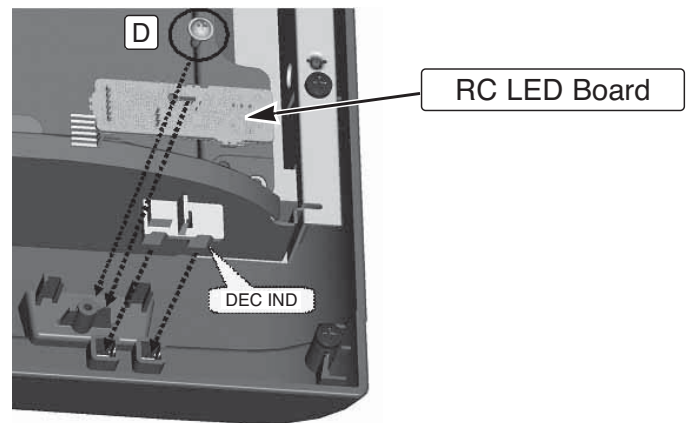
### SPEAKER REMOVAL

Remove 4 screws (A:4x10) to take off both speakers.



### RC LED BOARD REMOVAL

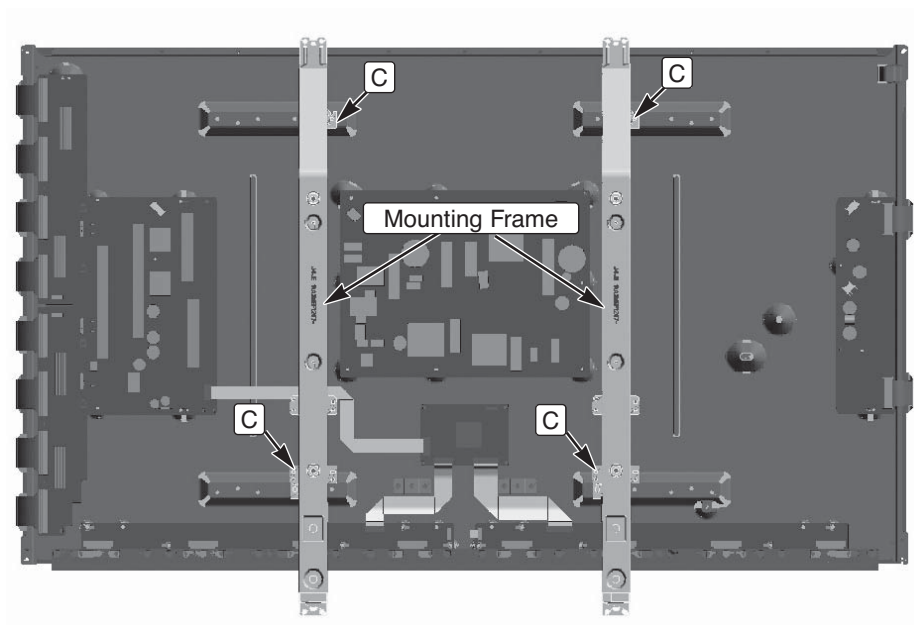
Remove 1 screw (D:3x10) to take the RC Led board off.





## PANEL MODULE REMOVAL

1. Remove the 4 screws (C:4x8) from the Mounting Frames to take the panel module off.



### CAUTION:

This PDP TV uses several different kinds of screws. Using the correct screw is necessary to prevent damage. Lead wires must be redressed to their previous locations after servicing. The Earth sheet and gasket are provided to prevent interference to other radio and television receivers. The Earth sheet and gasket should be returned to its previous position after servicing.

# CHASSIS ELECTRICAL PARTS LIST

**CAUTION:** To Protect against electrical shock and for continued product safety, refer to SAFETY PRECAUTIONS and PRODUCT SAFETY NOTICE on Page 2.

## PRODUCT SAFETY NOTICE

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN A REPLACEMENT IS MADE IN ANY AREA OF A RECEIVER. COMPONENTS INDICATED BY A  $\Delta$  IN THIS PARTS LIST AND THE SCHEMATIC DIAGRAM DESIGNATE COMPONENTS IN WHICH SAFETY CAN BE OF SPECIAL SIGNIFICANCE. IT IS PARTICULARLY RECOMMENDED THAT ONLY PARTS DESIGNATED ON THE FOLLOWING PARTS LIST BE USED FOR COMPONENT REPLACEMENT DESIGNATED BY A  $\Delta$ . NO DEVIATIONS FROM RESISTANCE, WATTAGE, AND VOLTAGE RATINGS MAY BE MADE FOR REPLACEMENT ITEMS DESIGNATED BY A  $\Delta$ .

Note: Schematic part location numbers may not always match with the part descriptions.  
The part descriptions are correct and should be used.

| Schematic Location | Part No. | Description |
|--------------------|----------|-------------|
|--------------------|----------|-------------|

## CAPACITORS

### NOTES:

Read description of the Capacitor as follows:

(Example)

CERAMIC 100P K 50V

Rated Voltage

Tolerance Symbols:

Less than 10pF

A : Not specified B :  $\pm 0.1\text{pF}$  C :  $\pm 0.25\text{pF}$   
D :  $\pm 0.5\text{pF}$  E :  $\pm 0.1\text{pF}$  F :  $\pm 1\text{pF}$   
G :  $\pm 2\text{pF}$  H :  $\pm 0.1 - 0\text{pF}$  L :  $\pm 0 - 0.1\text{pF}$   
R :  $\pm 0.25 - 0\text{pF}$  S :  $\pm 0 - 0.25\text{pF}$

More than 10pF

A : Not specified B :  $\pm 0.1\%$  C :  $\pm 0.25\%$   
D :  $\pm 0.5\%$  F :  $\pm 1\%$  G :  $\pm 2\%$   
H :  $\pm 3\%$  J :  $\pm 5\%$  K :  $\pm 10\%$   
L :  $\pm 15\%$  M :  $\pm 20\%$  N :  $\pm 30\%$   
P :  $\pm 100 - 0\%$  Q :  $\pm 30 - 10\%$  T :  $\pm 50 - 10\%$   
U :  $\pm 75 - 10\%$  V :  $\pm 20 - 10\%$  W :  $\pm 100 - 10\%$   
X :  $\pm 40 - 20\%$  Y :  $\pm 150 - 10\%$  Z :  $\pm 80 - 20\%$

Rated value: P=pico farad, U=micro farad

Material:

CERAMIC..... Ceramic  
MT-PAPER..... Metallized Paper  
POLYESTER..... Polyester  
MT-POLYEST..... Metallized Polyester  
POLYPRO..... Polypropylene  
MT-POLYPRO..... Metallized Polypropylene  
COMPO FILM..... Composite Film  
MT-COMPO..... Metallized Composite  
STYRENE..... Styrene  
TA-SOLID..... Tantalum Solid  
AL-SOLID..... Aluminium Solid  
ELECT..... Electrolytic  
NP-ELECT..... Non-polarised Electrolytic  
OS-SOLID..... Aluminium Solid with Organic  
Semi-conductive Electrolytic

| Schematic Location | Part No. | Description |
|--------------------|----------|-------------|
|--------------------|----------|-------------|

## RESISTORS

### NOTES:

Read description of the Resistor as follows:

(Example)

CARBON 4.7K J A 1/4W

Rated Wattage

Performance Symbols:

A...General B...Non-flammable  
Z...Low noise  
Other... Temperature coefficient

Tolerance Symbols:

A...0.05% B...0.1% C...25%  
D...0.5% F...1% G...2%  
J...5% K...10% M...20%  
P... $\pm 5 - 15\%$

Rated Value, ohms:

K...1,000 M...1,000,000

Material:

CARBON..... Carbon  
MT-FILM..... Metal Film  
OXIDE-MT..... Oxide Metal Film  
SOLID..... Composition  
MT-GLAZE..... Metal Glaze  
WIRE WOUND..... Wire Wound  
CERAMIC RES..... Ceramic  
FUSIBLE RES..... Fusible

| Schematic Location | Part No. | Description |
|--------------------|----------|-------------|
|--------------------|----------|-------------|

**"ASSY,PWB,MAIN\_B-J4JF\_SEI"**

**CAPACITORS**

|       |              |         |         |      |
|-------|--------------|---------|---------|------|
| C001  | F1H1H102A219 | CERAMIC | 1000P K | 50V  |
| C002  | F1H1H102A219 | CERAMIC | 1000P K | 50V  |
| C003  | F1J1E105A171 | CERAMIC | 1U K    | 25V  |
| C004  | F1J1E105A171 | CERAMIC | 1U K    | 25V  |
| C005  | F1H1H102A219 | CERAMIC | 1000P K | 50V  |
| C006  | F1H1H102A219 | CERAMIC | 1000P K | 50V  |
| C007  | F1H1H102A219 | CERAMIC | 1000P K | 50V  |
| C008  | F1H1H102A219 | CERAMIC | 1000P K | 50V  |
| C009  | F1H1H104A913 | CERAMIC | 0.1U K  | 50V  |
| C010  | F1H1H104A913 | CERAMIC | 0.1U K  | 50V  |
| C011  | F1H1H104A913 | CERAMIC | 0.1U K  | 50V  |
| C012  | F1H1H104A913 | CERAMIC | 0.1U K  | 50V  |
| C013  | F1H1H104A913 | CERAMIC | 0.1U K  | 50V  |
| C014  | F1H1H104A913 | CERAMIC | 0.1U K  | 50V  |
| C015  | F1H1H104A913 | CERAMIC | 0.1U K  | 50V  |
| C016  | F1H1H104A913 | CERAMIC | 0.1U K  | 50V  |
| C017  | F2A1E1020115 | ELECT   | 1000U M | 25V  |
| C018  | F1H1H331A792 | CERAMIC | 330P J  | 50V  |
| C019  | F1H1H331A792 | CERAMIC | 330P J  | 50V  |
| C020  | F1J1E105A171 | CERAMIC | 1U K    | 25V  |
| C021  | F1H1H104A913 | CERAMIC | 0.1U K  | 50V  |
| C022  | F1H1H104A913 | CERAMIC | 0.1U K  | 50V  |
| C023  | F1J1E105A171 | CERAMIC | 1U K    | 25V  |
| C024  | F1H1H104A913 | CERAMIC | 0.1U K  | 50V  |
| C025  | F1H1H104A913 | CERAMIC | 0.1U K  | 50V  |
| C026  | F1H1H104A913 | CERAMIC | 0.1U K  | 50V  |
| C027  | F1H1H104A913 | CERAMIC | 0.1U K  | 50V  |
| C028  | F1H1H1500009 | CERAMIC | 15P J   | 50V  |
| C029  | F1H1H1500009 | CERAMIC | 15P J   | 50V  |
| C030  | F1H1H104A220 | CERAMIC | 0.1U Z  | 50V  |
| C031  | F1H1H6810003 | CERAMIC | 680P J  | 50V  |
| C032  | F1H1H1010005 | CERAMIC | 100P J  | 50V  |
| C033  | F1H1H472A219 | CERAMIC | 4700P K | 50V  |
| C034  | F1H1H104A913 | CERAMIC | 0.1U K  | 50V  |
| C035  | F1H1H104A913 | CERAMIC | 0.1U K  | 50V  |
| C036  | F1J1E105A171 | CERAMIC | 1U K    | 25V  |
| C037  | F1J1E105A171 | CERAMIC | 1U K    | 25V  |
| C038  | F1H1H103A219 | CERAMIC | 0.01U K | 50V  |
| C040  | F1H1H104A913 | CERAMIC | 0.1U K  | 50V  |
| C041  | F1H1H104A913 | CERAMIC | 0.1U K  | 50V  |
| C042  | F1H1H104A913 | CERAMIC | 0.1U K  | 50V  |
| C802  | F1H1A105A036 | CERAMIC | 1U K    | 10V  |
| C803  | F1H1H104A913 | CERAMIC | 0.1U K  | 50V  |
| C806  | F2A0J2210063 | ELECT   | 220U M  | 6.3V |
| C808  | F1H1H104A220 | CERAMIC | 0.1U Z  | 50V  |
| C809  | F1H1A105A036 | CERAMIC | 1U K    | 10V  |
| C813  | F1H1H104A220 | CERAMIC | 0.1U Z  | 50V  |
| C820  | F1H1H104A220 | CERAMIC | 0.1U Z  | 50V  |
| C821  | F1H1H1800004 | CERAMIC | 18P J   | 50V  |
| C822  | F1H1H2200008 | CERAMIC | 22P J   | 50V  |
| C1002 | F1H1A105A036 | CERAMIC | 1U K    | 10V  |

| Schematic Location | Part No. | Description |
|--------------------|----------|-------------|
|--------------------|----------|-------------|

|       |              |         |          |      |
|-------|--------------|---------|----------|------|
| C1004 | F1H1A105A036 | CERAMIC | 1U K     | 10V  |
| C1006 | F1H1A105A036 | CERAMIC | 1U K     | 10V  |
| C1009 | F1H1A105A036 | CERAMIC | 1U K     | 10V  |
| C1010 | F1H1A105A036 | CERAMIC | 1U K     | 10V  |
| C1012 | F1H1A105A036 | CERAMIC | 1U K     | 10V  |
| C1014 | F1H1A105A036 | CERAMIC | 1U K     | 10V  |
| C1016 | F1H1A105A036 | CERAMIC | 1U K     | 10V  |
| C1025 | F1H1H471A792 | CERAMIC | 470P J   | 50V  |
| C1201 | F1H1H104A220 | CERAMIC | 0.1U Z   | 50V  |
| C1600 | F1H1H104A913 | CERAMIC | 0.1U K   | 50V  |
| C1601 | F1H1H104A913 | CERAMIC | 0.1U K   | 50V  |
| C1602 | F1H1H104A913 | CERAMIC | 0.1U K   | 50V  |
| C1603 | F1H1H104A913 | CERAMIC | 0.1U K   | 50V  |
| C1610 | F2A1V4710080 | ELECT   | 470U M   | 35V  |
| C1611 | F1H1E224A098 | CERAMIC | 0.22U K  | 25V  |
| C1612 | F1H1H223A219 | CERAMIC | 0.022U K | 50V  |
| C1613 | F1J1E105A171 | CERAMIC | 1U K     | 25V  |
| C1615 | F1H1H222A219 | CERAMIC | 2200P K  | 50V  |
| C1616 | F1J0J106A004 | CERAMIC | 10U K    | 6.3V |
|       | F1J0J106A020 | CERAMIC | 10U K    | 6.3V |
| C1617 | F2A0J1020089 | ELECT   | 1000U M  | 6.3V |
| C1630 | F2A1V4710080 | ELECT   | 470U M   | 35V  |
| C1631 | F1H1E224A098 | CERAMIC | 0.22U K  | 25V  |
| C1632 | F1H1H223A219 | CERAMIC | 0.022U K | 50V  |
| C1633 | F1J1E105A171 | CERAMIC | 1U K     | 25V  |
| C1635 | F1H1H472A219 | CERAMIC | 4700P K  | 50V  |
| C1636 | F1J0J106A004 | CERAMIC | 10U K    | 6.3V |
|       | F1J0J106A020 | CERAMIC | 10U K    | 6.3V |
| C1637 | F2A0J1020089 | ELECT   | 1000U M  | 6.3V |
| C1640 | F2A0J2210063 | ELECT   | 220U M   | 6.3V |
| C1641 | F1H1A105A036 | CERAMIC | 1U K     | 10V  |
| C1643 | F1H1A105A036 | CERAMIC | 1U K     | 10V  |
| C1644 | F1H1A105A036 | CERAMIC | 1U K     | 10V  |
| C1645 | F2A0J1020089 | ELECT   | 1000U M  | 6.3V |
| C1651 | F2A0J1020089 | ELECT   | 1000U M  | 6.3V |
| C1660 | F1H1H104A220 | CERAMIC | 0.1U Z   | 50V  |
| C1661 | F1J1E105A171 | CERAMIC | 1U K     | 25V  |
| C1662 | F2A1C101B828 | ELECT   | 100U M   | 16V  |
| C1663 | F1H1H104A220 | CERAMIC | 0.1U Z   | 50V  |
| C1664 | F2A1C101B828 | ELECT   | 100U M   | 16V  |
| C1700 | F2A1V4710080 | ELECT   | 470U M   | 35V  |
| C1701 | F1H1E474A100 | CERAMIC | 0.47U K  | 25V  |
| C1702 | F1H1H223A219 | CERAMIC | 0.022U K | 50V  |
| C1703 | F1K1H105A138 | CERAMIC | 1U K     | 50V  |
| C1705 | F1H1H472A219 | CERAMIC | 4700P K  | 50V  |
| C1706 | F1K1E4750002 | CERAMIC | 4.7U K   | 25V  |
| C1707 | F2A1E102B736 | ELECT   | 1K U M   | 25V  |
| C1801 | F1H1H104A220 | CERAMIC | 0.1U Z   | 50V  |
| C1815 | F2A0J2210063 | ELECT   | 220U M   | 6.3V |
| C1816 | F1J0J106A004 | CERAMIC | 10U K    | 6.3V |
|       | F1J0J106A020 | CERAMIC | 10U K    | 6.3V |
| C2403 | F1H1H104A220 | CERAMIC | 0.1U Z   | 50V  |
| C2404 | F1H1H104A220 | CERAMIC | 0.1U Z   | 50V  |
| C2405 | F1H1A105A036 | CERAMIC | 1U K     | 10V  |

| Schematic Location | Part No.     | Description         |
|--------------------|--------------|---------------------|
| C2407              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C2409              | F1H1H1010005 | CERAMIC 100P J 50V  |
| C2410              | F1H1H1010005 | CERAMIC 100P J 50V  |
| C2416              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C2417              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C2418              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C2440              | F1H1H4700006 | CERAMIC 47P J 50V   |
| C2441              | F1H1H4700006 | CERAMIC 47P J 50V   |
| C5500              | F1J0J106A004 | CERAMIC 10U K 6.3V  |
|                    | F1J0J106A020 | CERAMIC 10U K 6.3V  |
| C5501              | F1J0J106A004 | CERAMIC 10U K 6.3V  |
|                    | F1J0J106A020 | CERAMIC 10U K 6.3V  |
| C5502              | F1J0J106A004 | CERAMIC 10U K 6.3V  |
|                    | F1J0J106A020 | CERAMIC 10U K 6.3V  |
| C5503              | F1J0J106A004 | CERAMIC 10U K 6.3V  |
|                    | F1J0J106A020 | CERAMIC 10U K 6.3V  |
| C5504              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5505              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C5506              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5507              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C5508              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5509              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5510              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C5511              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5512              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5514              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5515              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C5516              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5517              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C5518              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C5519              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5520              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C5521              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C5522              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C5523              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5524              | F1H1H1010005 | CERAMIC 100P J 50V  |
| C5525              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5526              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5527              | F1J0J106A004 | CERAMIC 10U K 6.3V  |
|                    | F1J0J106A020 | CERAMIC 10U K 6.3V  |
| C5528              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5529              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5530              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C5531              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C5532              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C5533              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5534              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C5535              | F1J0J106A004 | CERAMIC 10U K 6.3V  |
|                    | F1J0J106A020 | CERAMIC 10U K 6.3V  |
| C5536              | F1J0J106A004 | CERAMIC 10U K 6.3V  |
|                    | F1J0J106A020 | CERAMIC 10U K 6.3V  |
| C5537              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5538              | F1H1H103A219 | CERAMIC 0.01U K 50V |
| C5539              | F1H1A105A036 | CERAMIC 1U K 10V    |

| Schematic Location | Part No.     | Description         |
|--------------------|--------------|---------------------|
| C5540              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5541              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5542              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5544              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C5545              | F1J0J106A004 | CERAMIC 10U K 6.3V  |
|                    | F1J0J106A020 | CERAMIC 10U K 6.3V  |
| C5547              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C5548              | F1J0J106A004 | CERAMIC 10U K 6.3V  |
|                    | F1J0J106A020 | CERAMIC 10U K 6.3V  |
| C5549              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5550              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5551              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C5552              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5553              | F1H1H103A219 | CERAMIC 0.01U K 50V |
| C5554              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5555              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5556              | F1J0J106A004 | CERAMIC 10U K 6.3V  |
|                    | F1J0J106A020 | CERAMIC 10U K 6.3V  |
| C5557              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5559              | F1H1H7R00007 | CERAMIC 7P D 50V    |
| C5560              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5561              | F1H1H7R00007 | CERAMIC 7P D 50V    |
| C5562              | F1J0J106A004 | CERAMIC 10U K 6.3V  |
|                    | F1J0J106A020 | CERAMIC 10U K 6.3V  |
| C5564              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C5565              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5566              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C5567              | F1H1H103A219 | CERAMIC 0.01U K 50V |
| C5568              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5569              | F1J0J106A004 | CERAMIC 10U K 6.3V  |
|                    | F1J0J106A020 | CERAMIC 10U K 6.3V  |
| C5570              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5571              | F1H1H104A913 | CERAMIC 0.1U K 50V  |
| C5572              | F1H1H104A913 | CERAMIC 0.1U K 50V  |
| C5573              | F1H1H104A913 | CERAMIC 0.1U K 50V  |
| C5574              | F1H1H104A913 | CERAMIC 0.1U K 50V  |
| C5575              | F1H1H103A219 | CERAMIC 0.01U K 50V |
| C5576              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5577              | F1H1H104A913 | CERAMIC 0.1U K 50V  |
| C5578              | F1J0J106A004 | CERAMIC 10U K 6.3V  |
|                    | F1J0J106A020 | CERAMIC 10U K 6.3V  |
| C5579              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5580              | F1H1H104A913 | CERAMIC 0.1U K 50V  |
| C5581              | F1H1H104A913 | CERAMIC 0.1U K 50V  |
| C5582              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5583              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5584              | F1H1H104A913 | CERAMIC 0.1U K 50V  |
| C5585              | F1H1H103A219 | CERAMIC 0.01U K 50V |
| C5586              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5587              | F1J0J106A004 | CERAMIC 10U K 6.3V  |
|                    | F1J0J106A020 | CERAMIC 10U K 6.3V  |
| C5588              | F1H1H104A913 | CERAMIC 0.1U K 50V  |
| C5589              | F1J0J106A004 | CERAMIC 10U K 6.3V  |

| Schematic Location | Part No.     | Description         |
|--------------------|--------------|---------------------|
|                    | F1J0J106A020 | CERAMIC 10U K 6.3V  |
| C5590              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5591              | F1H1H104A913 | CERAMIC 0.1U K 50V  |
| C5592              | F1H1H104A913 | CERAMIC 0.1U K 50V  |
| C5593              | F1H1H104A913 | CERAMIC 0.1U K 50V  |
| C5594              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C5595              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5596              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5597              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5598              | F1H1H4R0A502 | CERAMIC 4P C 50V    |
| C5599              | F1H1H4R0A502 | CERAMIC 4P C 50V    |
| C5602              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5603              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5604              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5605              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C5606              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5607              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C5608              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C5609              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C5610              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C5611              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5612              | F1H1H103A219 | CERAMIC 0.01U K 50V |
| C5613              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5614              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5615              | F1H1H103A219 | CERAMIC 0.01U K 50V |
| C5616              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5617              | F1J0J106A004 | CERAMIC 10U K 6.3V  |
|                    | F1J0J106A020 | CERAMIC 10U K 6.3V  |
| C5618              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5619              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C5620              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5621              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5622              | F2A0J2210063 | ELECT 220U M 6.3V   |
| C5623              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C5624              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C5625              | F2A1H4R7B764 | ELECT 4.7 U M 50V   |
| C5630              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C5631              | F2A1V4700087 | ELECT 47U M 35V     |
| C5650              | F1H1H4700006 | CERAMIC 47P J 50V   |
| C5651              | F1H1H4700006 | CERAMIC 47P J 50V   |
| C5652              | F1H1H4700006 | CERAMIC 47P J 50V   |
| C5653              | F1H1H4700006 | CERAMIC 47P J 50V   |
| C5654              | F1H1H4700006 | CERAMIC 47P J 50V   |
| C5655              | F1H1H4700006 | CERAMIC 47P J 50V   |
| C5656              | F1H1H4700006 | CERAMIC 47P J 50V   |
| C5657              | F1H1H4700006 | CERAMIC 47P J 50V   |
| C5658              | F1H1H4700006 | CERAMIC 47P J 50V   |
| C5659              | F1H1H4700006 | CERAMIC 47P J 50V   |
| C5660              | F1H1H4700006 | CERAMIC 47P J 50V   |
| C5661              | F1H1H4700006 | CERAMIC 47P J 50V   |
| C5662              | F1H1H4700006 | CERAMIC 47P J 50V   |
| C5663              | F1H1H4700006 | CERAMIC 47P J 50V   |
| C5664              | F1H1H4700006 | CERAMIC 47P J 50V   |
| C5665              | F1H1H4700006 | CERAMIC 47P J 50V   |

| Schematic Location | Part No.     | Description             |
|--------------------|--------------|-------------------------|
| C5666              | F1H1H4700006 | CERAMIC 47P J 50V       |
| C5667              | F1H1H4700006 | CERAMIC 47P J 50V       |
| C5702              | F1H1H104A220 | CERAMIC 0.1U Z 50V      |
| C5703              | F1J0J106A004 | CERAMIC 10U K 6.3V      |
|                    | F1J0J106A020 | CERAMIC 10U K 6.3V      |
| C5704              | F1H1A105A036 | CERAMIC 1U K 10V        |
| C5705              | F1H1H104A220 | CERAMIC 0.1U Z 50V      |
| C5706              | F1H1A105A036 | CERAMIC 1U K 10V        |
| C5707              | F1H1H104A220 | CERAMIC 0.1U Z 50V      |
| C5709              | F1J0J106A004 | CERAMIC 10U K 6.3V      |
|                    | F1J0J106A020 | CERAMIC 10U K 6.3V      |
| C5710              | F1H1A105A036 | CERAMIC 1U K 10V        |
| C5711              | F1H1H104A220 | CERAMIC 0.1U Z 50V      |
| C5712              | F1H1A105A036 | CERAMIC 1U K 10V        |
| C5713              | F1H1A105A036 | CERAMIC 1U K 10V        |
| C5714              | F1H1H104A220 | CERAMIC 0.1U Z 50V      |
| C5715              | F1H1A105A036 | CERAMIC 1U K 10V        |
| C5716              | F1H1H104A220 | CERAMIC 0.1U Z 50V      |
| C5717              | F1H1H103A219 | CERAMIC 0.01U K 50V     |
| C5730              | F2A0J2210062 | ELECT 220U M 6.3V       |
| C5731              | F2A0J2210063 | ELECT 220U M 6.3V       |
| C5732              | F1H1A105A036 | CERAMIC 1U K 10V        |
| C5737              | F2A0J1020090 | ELECT 1000U M 6.3V      |
| C5750              | F1H1A105A036 | CERAMIC 1U K 10V        |
| C5901              | F1H1H104A220 | CERAMIC 0.1U Z 50V      |
| C5902              | F1H1E224A098 | CERAMIC 0.22U K 25V     |
| C6101              | F1H1H103A219 | CERAMIC 0.01U K 50V     |
| C6102              | F1H1H103A219 | CERAMIC 0.01U K 50V     |
| C6105              | F1H1H4700006 | CERAMIC 47P J 50V       |
| C6106              | F1H1H4700006 | CERAMIC 47P J 50V       |
| C6110              | F2A0J1020089 | ELECT 1000U M 6.3V      |
| C6111              | F1H1H104A220 | CERAMIC 0.1U Z 50V      |
| C6112              | F1H1H104A913 | CERAMIC 0.1U K 50V      |
| C6130              | F1H1H102A219 | CERAMIC 1000P K 50V     |
| C6131              | F1H1H102A219 | CERAMIC 1000P K 50V     |
| C6133              | F1H1H1200004 | CERAMIC 12P J 50V       |
| C6134              | F1H1H1200004 | CERAMIC 12P J 50V       |
| C6135              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| C6136              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| C6200              | F1H1A105A036 | CERAMIC 1U K 10V        |
| C6201              | F1H1A105A036 | CERAMIC 1U K 10V        |
| C6204              | F1H1H471A792 | CERAMIC 470P J 50V      |
| C6205              | F1H1H104A220 | CERAMIC 0.1U Z 50V      |
| C6206              | F1H1H680A831 | CERAMIC 68P J 50V       |
| C6207              | F1H1H680A831 | CERAMIC 68P J 50V       |
| C6208              | F1H1H104A220 | CERAMIC 0.1U Z 50V      |
| C6209              | F2A1H100B764 | ELECT 10U M 50V         |
| C6210              | F1H1H680A831 | CERAMIC 68P J 50V       |
| C6211              | F1H1H680A831 | CERAMIC 68P J 50V       |
| C6212              | F1H1H471A792 | CERAMIC 470P J 50V      |
| C6213              | F1H1A105A036 | CERAMIC 1U K 10V        |
| C6214              | F1H1A105A036 | CERAMIC 1U K 10V        |
| C6510              | F1H1H104A220 | CERAMIC 0.1U Z 50V      |
| C6533              | F1H1H104A220 | CERAMIC 0.1U Z 50V      |



| Schematic Location | Part No.     | Description         |
|--------------------|--------------|---------------------|
| C6563              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C6600              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C6601              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C6602              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C6603              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C6604              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C6605              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C6606              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C6607              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C6608              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C6609              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C6610              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C6611              | F1H1H104A913 | CERAMIC 0.1U K 50V  |
| C6612              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C6613              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C6614              | F1H1H104A913 | CERAMIC 0.1U K 50V  |
| C6615              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C6616              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C6617              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C6618              | F1H1H104A913 | CERAMIC 0.1U K 50V  |
| C6630              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C6631              | F1J1E105A171 | CERAMIC 1U K 25V    |
| C6632              | F2A0J2210063 | ELECT 220U M 6.3V   |
| C6633              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C6634              | F2A0J2210063 | ELECT 220U M 6.3V   |
| C6650              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C6651              | F1J1E105A171 | CERAMIC 1U K 25V    |
| C6652              | F2A1V4700087 | ELECT 47U M 35V     |
| C6653              | F1H1H104A220 | CERAMIC 0.1U Z 50V  |
| C6654              | F2A1V4700087 | ELECT 47U M 35V     |
| C6655              | F2A1V4700087 | ELECT 47U M 35V     |
| C8501              | F1H1A105A036 | CERAMIC 1U K 10V    |
| C8503              | F1H1H103A219 | CERAMIC 0.01U K 50V |
| C8504              | F2A0J2210063 | ELECT 220U M 6.3V   |

## DIODES

|       |              |                            |
|-------|--------------|----------------------------|
| D002  | B0ACCK000005 | DIODE 1SS355-TE-17         |
|       | B0ACCK000019 | DIODE 1SS355               |
|       | B0ACDJ000007 | DIODE 1SS352-(TPH3)        |
| D003  | B0ACCK000005 | DIODE 1SS355-TE-17         |
|       | B0ACCK000019 | DIODE 1SS355               |
|       | B0ACDJ000007 | DIODE 1SS352-(TPH3)        |
| D007  | B0BC6R100010 | ZD UDZS-TE-176.2B          |
|       | B0BC6R100025 | ZENER DIODE 02DZ6.2Y(TPH3) |
|       | B0BC6R2A0384 | ZENER DIODE MM3Z6V2B       |
| D008  | B0BC6R100010 | ZD UDZS-TE-176.2B          |
|       | B0BC6R100025 | ZENER DIODE 02DZ6.2Y(TPH3) |
|       | B0BC6R2A0384 | ZENER DIODE MM3Z6V2B       |
| D801  | B0BC3R9A0384 | ZENER DIODE MM3Z3V9B       |
|       | B0BC4R0A0006 | ZD UDZS-TE-173.9B          |
|       | DZ02DZ3.9Y—G | ZENER DIODE 02DZ3.9Y(TPH3) |
| D1000 | B0BC3R9A0384 | ZENER DIODE MM3Z3V9B       |
|       | B0BC4R0A0006 | ZD UDZS-TE-173.9B          |

| Schematic Location | Part No.     | Description                |
|--------------------|--------------|----------------------------|
|                    | DZ02DZ3.9Y—G | ZENER DIODE 02DZ3.9Y(TPH3) |
| D1001              | B0BC3R9A0384 | ZENER DIODE MM3Z3V9B       |
|                    | B0BC4R0A0006 | ZD UDZS-TE-173.9B          |
|                    | DZ02DZ3.9Y—G | ZENER DIODE 02DZ3.9Y(TPH3) |
| D1610              | B0JCPD000043 | DIODE SS3P3-E3/84A         |
|                    | B0JCPD000046 | DIODE SS3P3-M3/84A         |
| D1620              | B0ACCK000005 | DIODE 1SS355-TE-17         |
|                    | B0ACCK000019 | DIODE 1SS355               |
|                    | B0ACDJ000007 | DIODE 1SS352-(TPH3)        |
| D1621              | B0BC3R0A0384 | ZENER DIODE MM3Z3V0B       |
|                    | DZ02DZ3.0Y—G | ZENER DIODE 02DZ3.0Y(TPH3) |
|                    | DZUDZS3.0B—G | ZENER DIODE UDZS3.0B-TE-1  |
| D1630              | B0JCPD000043 | DIODE SS3P3-E3/84A         |
|                    | B0JCPD000046 | DIODE SS3P3-M3/84A         |
| D1651              | B0ACCK000005 | DIODE 1SS355-TE-17         |
|                    | B0ACCK000019 | DIODE 1SS355               |
|                    | B0ACDJ000007 | DIODE 1SS352-(TPH3)        |
| D1660              | B0ACCK000005 | DIODE 1SS355-TE-17         |
|                    | B0ACCK000019 | DIODE 1SS355               |
|                    | B0ACDJ000007 | DIODE 1SS352-(TPH3)        |
| D1671              | B0ACCK000005 | DIODE 1SS355-TE-17         |
|                    | B0ACCK000019 | DIODE 1SS355               |
|                    | B0ACDJ000007 | DIODE 1SS352-(TPH3)        |
| D1700              | B0JCPD000043 | DIODE SS3P3-E3/84A         |
|                    | B0JCPD000046 | DIODE SS3P3-M3/84A         |
| D2402              | B0JCGD000002 | DIODE RB551V-30-TE-17      |
| D2403              | B0JCGD000002 | DIODE RB551V-30-TE-17      |
| D6501              | B0JCGD000002 | DIODE RB551V-30-TE-17      |
| D6502              | B0JCGD000002 | DIODE RB551V-30-TE-17      |
| D6503              | B0JCGD000002 | DIODE RB551V-30-TE-17      |
| D8500              | B0ZBZ0000174 | DIODE DF2S6.8UFS           |
| D8501              | B0ZBZ0000174 | DIODE DF2S6.8UFS           |

## INTEGRATED CIRCUITS

|        |              |                        |
|--------|--------------|------------------------|
| IC001  | C1AB00003633 | IC STA333BW13TR        |
| IC800  | QXXAAJQ1239— | IC LC87F2932AVU-Y10LCD |
| IC800A | C2BBYY000888 | IC LC87F2932AVU-QIP-E  |
| IC801  | C3EBDC000091 | IC CAT24C02WI-GT3      |
|        | C3EBDY000038 | IC LE24C023M-TLM-E     |
|        | QXXAVC837—P  | IC AT24C02BN-10SU-1.8  |
| IC002  | COJBAA000505 | IC 74AHCT1G08GW        |
|        | COJBAA000077 | IC TC7SET08FU-(TE85L)  |
| IC1200 | COJBAR000390 | IC CD4052BNSR          |
|        | COJBAR000413 | IC TC4052BF(EL)        |
| IC1610 | C0DBAYY00462 | IC LV5803M-TE-L-E      |
| IC1630 | C0DBAYY00462 | IC LV5803M-TE-L-E      |
| IC1640 | C0DBEYY00016 | IC PQ070XNA1ZPH        |
| IC1660 | C0CBAYG00009 | IC LM1117S-ADJ         |
| IC1700 | C0DBAYY00462 | IC LV5803M-TE-L-E      |
| IC1801 | COJBAA000505 | IC 74AHCT1G08GW        |
|        | COJBAA000077 | IC TC7SET08FU-(TE85L)  |
| IC2401 | COJBAA000356 | IC TC7SH08FU(TE85L)    |
| IC2402 | COJBAA000356 | IC TC7SH08FU(TE85L)    |

| Schematic Location | Part No.     | Description           |
|--------------------|--------------|-----------------------|
| IC2404             | C0JBAA000356 | IC TC7SH08FU(TE85L)   |
|                    | C0JBAA000484 | IC 74AHC1G08GW        |
| IC2405             | C0JBAA000356 | IC TC7SH08FU(TE85L)   |
|                    | C0JBAA000484 | IC 74AHC1G08GW        |
| IC5500             | C1AB00003694 | IC BCM35143KQLEG      |
| IC5600             | C3EBDC000091 | IC CAT24C02WI-GT3     |
|                    | C3EBDY000038 | IC LE24C023M-TLM-E    |
|                    | QXXAVC837—P  | IC AT24C02BN-10SU-1.8 |
| IC5623             | C0JBAA000356 | IC TC7SH08FU(TE85L)   |
|                    | C0JBAA000484 | IC 74AHC1G08GW        |
| IC5624             | C0JBAA000356 | IC TC7SH08FU(TE85L)   |
|                    | C0JBAA000484 | IC 74AHC1G08GW        |
| IC5700             | C3ABSY000081 | IC A3R12E4JFF-G8E     |
| IC5730             | C0DBEYY00016 | IC PQ070XNA1ZPH       |
| IC5750             | QXXAAJQ1157— | IC W25Q128BVFIF       |
| IC5750A            | C3FBQY000054 | IC W25Q128BVFIF       |
| IC5900             | C0EBY0000980 | IC XC6108N28AMR       |
| IC6200             | C0ABBB000350 | IC BA4558RF-E2        |
|                    | C0ABBB000450 | IC NJM4558M-TE2       |
| IC6600             | QTDA9996—M   | IC TDA9996            |
| IC6630             | C0CBAYG00009 | IC LM1117S-ADJ        |
| IC6650             | C0CBAYG00009 | IC LM1117S-ADJ        |
| IC8500             | C0DBZYY00458 | IC RT9711CGB          |

## COILS

|       |              |                         |
|-------|--------------|-------------------------|
| L001  | G1C220MA0445 | "INDUCTOR ,22UH"        |
| L002  | G1C220MA0445 | "INDUCTOR ,22UH"        |
| L003  | G1C220MA0445 | "INDUCTOR ,22UH"        |
| L009  | JOJCC0000371 | "INDUCTOR , 120 OHM"    |
| L011  | JOJYC0000381 | "INDUCTOR , 220 OHM"    |
| L012  | JOJYC0000381 | "INDUCTOR , 220 OHM"    |
| L013  | G1C220MA0445 | "INDUCTOR ,22UH"        |
| L017  | JOJCC0000371 | "INDUCTOR , 120 OHM"    |
| L800  | G1C3R3MA0061 | "INDUCTOR,3.3U M"       |
| L801  | G1C3R3MA0061 | "INDUCTOR,3.3U M"       |
| L1000 | G1C3R3MA0061 | "INDUCTOR,3.3U M"       |
| L1200 | G1C3R3MA0061 | "INDUCTOR,3.3U M"       |
| L1602 | JOJYC0000381 | "INDUCTOR , 220 OHM"    |
| L1604 | JOJYC0000381 | "INDUCTOR , 220 OHM"    |
| L1605 | D0GDR00JA072 | MT-GLAZE 0.000 ZA 1/10W |
|       | D0GDR00Z0002 | MT-GLAZE 0.000 ZA 1/10W |
| L1606 | JOJYC0000381 | "INDUCTOR , 220 OHM"    |
| L1607 | D0GDR00JA072 | MT-GLAZE 0.000 ZA 1/10W |
|       | D0GDR00Z0002 | MT-GLAZE 0.000 ZA 1/10W |
| L1608 | JOJYC0000381 | "INDUCTOR , 220 OHM"    |
| L1609 | JOJYC0000381 | "INDUCTOR , 220 OHM"    |
| L1610 | JOJYC0000381 | "INDUCTOR , 220 OHM"    |
| L1613 | JOJYC0000381 | "INDUCTOR , 220 OHM"    |
| L1614 | JOJYC0000381 | "INDUCTOR , 220 OHM"    |
| L1615 | G1C100MA0445 | INDUCTOR 10U M          |
| L1616 | D0GDR00JA072 | MT-GLAZE 0.000 ZA 1/10W |
|       | D0GDR00Z0002 | MT-GLAZE 0.000 ZA 1/10W |
| L1630 | G1C100MA0445 | INDUCTOR 10U M          |

| Schematic Location | Part No.     | Description             |
|--------------------|--------------|-------------------------|
| L1631              | D0GDR00JA072 | MT-GLAZE 0.000 ZA 1/10W |
|                    | D0GDR00Z0002 | MT-GLAZE 0.000 ZA 1/10W |
| L1644              | G1C100MA0445 | INDUCTOR 10U M          |
| L1661              | D0GDR00JA072 | MT-GLAZE 0.000 ZA 1/10W |
|                    | D0GDR00Z0002 | MT-GLAZE 0.000 ZA 1/10W |
| L1673              | D0GDR00JA072 | MT-GLAZE 0.000 ZA 1/10W |
|                    | D0GDR00Z0002 | MT-GLAZE 0.000 ZA 1/10W |
| L1674              | D0GDR00JA072 | MT-GLAZE 0.000 ZA 1/10W |
|                    | D0GDR00Z0002 | MT-GLAZE 0.000 ZA 1/10W |
| L1677              | JOJYC0000381 | "INDUCTOR , 220 OHM"    |
| L1680              | D0GDR00JA072 | MT-GLAZE 0.000 ZA 1/10W |
|                    | D0GDR00Z0002 | MT-GLAZE 0.000 ZA 1/10W |
| L1716              | G1C100MA0445 | INDUCTOR 10U M          |
| L2401              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| L5500              | JOJYC0000381 | "INDUCTOR , 220 OHM"    |
| L5501              | JOJCC0000371 | "INDUCTOR , 120 OHM"    |
| L5502              | JOJCC0000371 | "INDUCTOR , 120 OHM"    |
| L5503              | JOJCC0000371 | "INDUCTOR , 120 OHM"    |
| L5504              | JOJCC0000371 | "INDUCTOR , 120 OHM"    |
| L5505              | JOJCC0000371 | "INDUCTOR , 120 OHM"    |
| L5506              | JOJCC0000371 | "INDUCTOR , 120 OHM"    |
| L5507              | JOJCC0000371 | "INDUCTOR , 120 OHM"    |
| L5508              | JOJCC0000371 | "INDUCTOR , 120 OHM"    |
| L5509              | JOJCC0000371 | "INDUCTOR , 120 OHM"    |
| L5511              | JOJCC0000371 | "INDUCTOR , 120 OHM"    |
| L5512              | JOJCC0000371 | "INDUCTOR , 120 OHM"    |
| L5513              | JOJCC0000371 | "INDUCTOR , 120 OHM"    |
| L5514              | JOJCC0000371 | "INDUCTOR , 120 OHM"    |
| L5515              | JOJCC0000371 | "INDUCTOR , 120 OHM"    |
| L5516              | JOJCC0000371 | "INDUCTOR , 120 OHM"    |
| L5517              | JOJCC0000371 | "INDUCTOR , 120 OHM"    |
| L5518              | JOJCC0000371 | "INDUCTOR , 120 OHM"    |
| L5519              | JOJCC0000371 | "INDUCTOR , 120 OHM"    |
| L5520              | JOJCC0000371 | "INDUCTOR , 120 OHM"    |
| L5521              | JOJCC0000371 | "INDUCTOR , 120 OHM"    |
| L5555              | D0GB4R7J0002 | MT-GLAZE 4.7 JA 1/10W   |
| L5650              | G1CR47JA0041 | "INDUCTOR,0.47U J"      |
| L5651              | G1CR47JA0041 | "INDUCTOR,0.47U J"      |
| L5652              | G1CR47JA0041 | "INDUCTOR,0.47U J"      |
| L5653              | G1CR47JA0041 | "INDUCTOR,0.47U J"      |
| L5654              | G1CR47JA0041 | "INDUCTOR,0.47U J"      |
| L5655              | G1CR47JA0041 | "INDUCTOR,0.47U J"      |
| L5660              | G1CR47JA0041 | "INDUCTOR,0.47U J"      |
| L5661              | G1CR47JA0041 | "INDUCTOR,0.47U J"      |
| L5662              | G1CR47JA0041 | "INDUCTOR,0.47U J"      |
| L5701              | JOJYC0000381 | "INDUCTOR , 220 OHM"    |
| L5730              | D0GDR00JA072 | MT-GLAZE 0.000 ZA 1/10W |
|                    | D0GDR00Z0002 | MT-GLAZE 0.000 ZA 1/10W |
| L6100              | D0GB121J0002 | MT-GLAZE 120 JA 1/10W   |
| L6101              | D0GB121J0002 | MT-GLAZE 120 JA 1/10W   |
| L6104              | D0GDR00JA072 | MT-GLAZE 0.000 ZA 1/10W |
|                    | D0GDR00Z0002 | MT-GLAZE 0.000 ZA 1/10W |
| L6105              | G1C3R3MA0061 | "INDUCTOR,3.3U M"       |
| L6117              | JOJYC0000381 | "INDUCTOR , 220 OHM"    |

| Schematic Location | Part No.     | Description             |
|--------------------|--------------|-------------------------|
| L6131              | G1CR47JA0041 | "INDUCTOR,0.47U J"      |
| L6132              | G1CR47JA0041 | "INDUCTOR,0.47U J"      |
| L6200              | D0GDR00JA072 | MT-GLAZE 0.000 ZA 1/10W |
|                    | D0GDR00Z0002 | MT-GLAZE 0.000 ZA 1/10W |
| L6305              | J0JAD0000028 | "IMPEDANCE,200 OHM M"   |
| L6306              | J0JAD0000028 | "IMPEDANCE,200 OHM M"   |
| L6307              | J0JAD0000028 | "IMPEDANCE,200 OHM M"   |
| L6351              | D0GDR00JA072 | MT-GLAZE 0.000 ZA 1/10W |
|                    | D0GDR00Z0002 | MT-GLAZE 0.000 ZA 1/10W |
| L6600              | J0JCC0000371 | "INDUCTOR , 120 OHM"    |
| L6630              | J0JYC0000381 | "INDUCTOR , 220 OHM"    |
| L6651              | J0JCC0000371 | "INDUCTOR , 120 OHM"    |
| L6670              | J0JCC0000371 | "INDUCTOR , 120 OHM"    |
| L6671              | J0JCC0000371 | "INDUCTOR , 120 OHM"    |
| L8500              | D0GDR00JA072 | MT-GLAZE 0.000 ZA 1/10W |
|                    | D0GDR00Z0002 | MT-GLAZE 0.000 ZA 1/10W |

## TRANSISTORS

|       |              |                |
|-------|--------------|----------------|
| Q801  | B1ADCE000028 | TR MMBTSA1235F |
|       | B1ADCF000194 | TR ISA1235AC1F |
|       | B1ADCF000201 | TR ISA1235AC1E |
| Q806  | B1ADCE000028 | TR MMBTSA1235F |
|       | B1ADCF000194 | TR ISA1235AC1F |
|       | B1ADCF000201 | TR ISA1235AC1E |
| Q808  | B1ABCE000028 | TR MMBTSC3928R |
|       | B1ABDF000013 | TR 2SC3928A1R  |
|       | B1ABDF000024 | TR 2SC3928A1S  |
| Q1001 | B1ABCE000028 | TR MMBTSC3928R |
|       | B1ABDF000013 | TR 2SC3928A1R  |
|       | B1ABDF000024 | TR 2SC3928A1S  |
| Q1002 | B1ABCE000028 | TR MMBTSC3928R |
|       | B1ABDF000013 | TR 2SC3928A1R  |
|       | B1ABDF000024 | TR 2SC3928A1S  |
| Q1200 | B1ABCE000028 | TR MMBTSC3928R |
|       | B1ABDF000013 | TR 2SC3928A1R  |
|       | B1ABDF000024 | TR 2SC3928A1S  |
| Q1201 | B1ABCE000028 | TR MMBTSC3928R |
|       | B1ABDF000013 | TR 2SC3928A1R  |
|       | B1ABDF000024 | TR 2SC3928A1S  |
| Q1202 | B1ABCE000028 | TR MMBTSC3928R |
|       | B1ABDF000013 | TR 2SC3928A1R  |
|       | B1ABDF000024 | TR 2SC3928A1S  |
| Q1203 | B1ABCE000028 | TR MMBTSC3928R |
|       | B1ABDF000013 | TR 2SC3928A1R  |
|       | B1ABDF000024 | TR 2SC3928A1S  |
| Q1610 | B1ABCE000028 | TR MMBTSC3928R |
|       | B1ABDF000013 | TR 2SC3928A1R  |
|       | B1ABDF000024 | TR 2SC3928A1S  |
| Q1620 | B1ABCE000028 | TR MMBTSC3928R |
|       | B1ABDF000013 | TR 2SC3928A1R  |
|       | B1ABDF000024 | TR 2SC3928A1S  |
| Q1621 | B1ABCE000028 | TR MMBTSC3928R |
|       | B1ABDF000013 | TR 2SC3928A1R  |

| Schematic Location | Part No.     | Description        |
|--------------------|--------------|--------------------|
|                    | B1ABDF000024 | TR 2SC3928A1S      |
| Q1623              | B1ABGD000003 | TR 2SC2411K-T146-Q |
| Q1660              | B1ABGD000003 | TR 2SC2411K-T146-Q |
| Q1700              | B1ABCE000028 | TR MMBTSC3928R     |
|                    | B1ABDF000013 | TR 2SC3928A1R      |
|                    | B1ABDF000024 | TR 2SC3928A1S      |
| Q1801              | B1ABCE000028 | TR MMBTSC3928R     |
|                    | B1ABDF000013 | TR 2SC3928A1R      |
|                    | B1ABDF000024 | TR 2SC3928A1S      |
| Q1802              | B1ABCE000028 | TR MMBTSC3928R     |
|                    | B1ABDF000013 | TR 2SC3928A1R      |
|                    | B1ABDF000024 | TR 2SC3928A1S      |
| Q2401              | B1CFGD000003 | TR UM6K1N-TN       |
| Q5580              | B1ABCE000028 | TR MMBTSC3928R     |
|                    | B1ABDF000013 | TR 2SC3928A1R      |
|                    | B1ABDF000024 | TR 2SC3928A1S      |
| Q6530              | B1CFGD000025 | TR 3LN01C-TB-E     |
| Q8500              | B1ABCE000028 | TR MMBTSC3928R     |
|                    | B1ABDF000013 | TR 2SC3928A1R      |
|                    | B1ABDF000024 | TR 2SC3928A1S      |

## RESISTORS

|      |              |                     |          |       |
|------|--------------|---------------------|----------|-------|
| R001 | D0GB5R6JA072 | MT-GLAZE            | 5.6 JA   | 1/10W |
| R002 | D0GB5R6JA072 | MT-GLAZE            | 5.6 JA   | 1/10W |
| R003 | D0GB5R6JA072 | MT-GLAZE            | 5.6 JA   | 1/10W |
| R004 | D0GB5R6JA072 | MT-GLAZE            | 5.6 JA   | 1/10W |
| R005 | D0GB470J0002 | MT-GLAZE            | 47 JA    | 1/10W |
| R006 | D0GB470J0002 | MT-GLAZE            | 47 JA    | 1/10W |
| R007 | J0JCC0000371 | "INDUCTOR, 120 OHM" |          |       |
| R008 | J0JCC0000371 | "INDUCTOR, 120 OHM" |          |       |
| R009 | D0GB103JA072 | MT-GLAZE            | 10K JA   | 1/10W |
| R010 | D0GB100JA072 | MT-GLAZE            | 10 JA    | 1/10W |
| R012 | D0GB101JA069 | MT-GLAZE            | 100 JA   | 1/10W |
| R013 | D0GB101JA069 | MT-GLAZE            | 100 JA   | 1/10W |
| R015 | D0GB222JA072 | MT-GLAZE            | 2.2K JA  | 1/10W |
| R016 | D0GB122JA072 | MT-GLAZE            | 1.2K JA  | 1/10W |
| R019 | D0GB222JA072 | MT-GLAZE            | 2.2K JA  | 1/10W |
| R021 | D0GBR00JA071 | MT-GLAZE            | 0.000 ZA | 1/10W |
| R022 | D0GB470J0002 | MT-GLAZE            | 47 JA    | 1/10W |
| R023 | D0GB470J0002 | MT-GLAZE            | 47 JA    | 1/10W |
| R808 | D0GB103JA072 | MT-GLAZE            | 10K JA   | 1/10W |
| R810 | D0GB471JA069 | MT-GLAZE            | 470 JA   | 1/10W |
| R811 | D0GB223JA070 | MT-GLAZE            | 22K JA   | 1/10W |
| R813 | D0GB103JA072 | MT-GLAZE            | 10K JA   | 1/10W |
| R822 | D0GB103JA072 | MT-GLAZE            | 10K JA   | 1/10W |
| R826 | D0GB472JA072 | MT-GLAZE            | 4.7K JA  | 1/10W |
| R827 | D0GB472JA072 | MT-GLAZE            | 4.7K JA  | 1/10W |
| R828 | D0GB472JA072 | MT-GLAZE            | 4.7K JA  | 1/10W |
| R829 | D0GB101JA069 | MT-GLAZE            | 100 JA   | 1/10W |
| R830 | D0GB101JA069 | MT-GLAZE            | 100 JA   | 1/10W |
| R833 | D0GB472JA072 | MT-GLAZE            | 4.7K JA  | 1/10W |
| R835 | D0GBR00JA071 | MT-GLAZE            | 0.000 ZA | 1/10W |
| R839 | D0GBR00JA071 | MT-GLAZE            | 0.000 ZA | 1/10W |

| Schematic Location | Part No.     | Description             |
|--------------------|--------------|-------------------------|
| R842               | D0GB472JA072 | MT-GLAZE 4.7K JA 1/10W  |
| R843               | D0GB472JA072 | MT-GLAZE 4.7K JA 1/10W  |
| R845               | D0GB472JA072 | MT-GLAZE 4.7K JA 1/10W  |
| R846               | D0GB472JA072 | MT-GLAZE 4.7K JA 1/10W  |
| R848               | D0GB472JA072 | MT-GLAZE 4.7K JA 1/10W  |
| R852               | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R853               | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R854               | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R857               | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R858               | D0GB104JA068 | MT-GLAZE 100K JA 1/10W  |
| R859               | D0GB104JA068 | MT-GLAZE 100K JA 1/10W  |
| R860               | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R861               | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R862               | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R865               | D0GB102JA071 | MT-GLAZE 1K JA 1/10W    |
| R871               | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R873               | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R875               | D0GB223JA070 | MT-GLAZE 22K JA 1/10W   |
| R876               | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R877               | D0GB334JA068 | MT-GLAZE 330K JA 1/10W  |
| R879               | D0GB472JA072 | MT-GLAZE 4.7K JA 1/10W  |
| R883               | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R884               | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R885               | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R886               | D0GB104JA068 | MT-GLAZE 100K JA 1/10W  |
| R887               | D0GB104JA068 | MT-GLAZE 100K JA 1/10W  |
| R888               | D0GB104JA068 | MT-GLAZE 100K JA 1/10W  |
| R890               | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R891               | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R892               | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R893               | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R894               | D0GB472JA072 | MT-GLAZE 4.7K JA 1/10W  |
| R897               | D0GB223JA070 | MT-GLAZE 22K JA 1/10W   |
| R899               | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R901               | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R902               | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R1005              | D0GB750JA072 | MT-GLAZE 75 JA 1/10W    |
| R1012              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R1014              | D0GB154JA068 | MT-GLAZE 150K JA 1/10W  |
| R1015              | D0GB224JA068 | MT-GLAZE 220K JA 1/10W  |
| R1016              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R1018              | D0GB334JA068 | MT-GLAZE 330K JA 1/10W  |
| R1019              | D0GB154JA068 | MT-GLAZE 150K JA 1/10W  |
| R1020              | D0GB224JA068 | MT-GLAZE 220K JA 1/10W  |
| R1021              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R1022              | D0GB334JA068 | MT-GLAZE 330K JA 1/10W  |
| R1036              | D0GB471JA069 | MT-GLAZE 470 JA 1/10W   |
| R1037              | D0GB102JA071 | MT-GLAZE 1K JA 1/10W    |
| R1038              | D0GB104JA068 | MT-GLAZE 100K JA 1/10W  |
| R1040              | D0GB471JA069 | MT-GLAZE 470 JA 1/10W   |
| R1041              | D0GB102JA071 | MT-GLAZE 1K JA 1/10W    |
| R1042              | D0GB104JA068 | MT-GLAZE 100K JA 1/10W  |
| R1043              | D0GB154JA068 | MT-GLAZE 150K JA 1/10W  |
| R1044              | D0GB224JA068 | MT-GLAZE 220K JA 1/10W  |

| Schematic Location | Part No.     | Description             |
|--------------------|--------------|-------------------------|
| R1045              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R1046              | D0GB334JA068 | MT-GLAZE 330K JA 1/10W  |
| R1047              | D0GB154JA068 | MT-GLAZE 150K JA 1/10W  |
| R1048              | D0GB224JA068 | MT-GLAZE 220K JA 1/10W  |
| R1049              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R1050              | D0GB334JA068 | MT-GLAZE 330K JA 1/10W  |
| R1051              | D0GB154JA068 | MT-GLAZE 150K JA 1/10W  |
| R1052              | D0GB224JA068 | MT-GLAZE 220K JA 1/10W  |
| R1053              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R1054              | D0GB334JA068 | MT-GLAZE 330K JA 1/10W  |
| R1055              | D0GB154JA068 | MT-GLAZE 150K JA 1/10W  |
| R1056              | D0GB224JA068 | MT-GLAZE 220K JA 1/10W  |
| R1057              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R1058              | D0GB334JA068 | MT-GLAZE 330K JA 1/10W  |
| R1077              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R1096              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R1098              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R1100              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R1102              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R1104              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R1106              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R1108              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R1110              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R1200              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R1201              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R1202              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R1203              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R1205              | D0GB222JA072 | MT-GLAZE 2.2K JA 1/10W  |
| R1207              | D0GB222JA072 | MT-GLAZE 2.2K JA 1/10W  |
| R1208              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R1209              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R1600              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R1610              | D0GB223JA070 | MT-GLAZE 22K JA 1/10W   |
| R1612              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R1613              | D0GB472ZA038 | MT-GLAZE 4.7K FA 1/10W  |
| R1614              | D0GB562JA072 | MT-GLAZE 5.6K JA 1/10W  |
| R1616              | D0GB122ZA038 | MT-GLAZE 1.2K FA 1/10W  |
| R1618              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R1622              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R1623              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R1624              | D0GB223JA070 | MT-GLAZE 22K JA 1/10W   |
| R1625              | D0GB223JA070 | MT-GLAZE 22K JA 1/10W   |
| R1628              | D0GB102JA071 | MT-GLAZE 1K JA 1/10W    |
| R1630              | D0GB472JA072 | MT-GLAZE 4.7K JA 1/10W  |
| R1631              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R1632              | D0GB152ZA038 | MT-GLAZE 1.5K FA 1/10W  |
| R1633              | D0GB562JA072 | MT-GLAZE 5.6K JA 1/10W  |
| R1635              | D0GB472ZA038 | MT-GLAZE 4.7K FA 1/10W  |
| R1637              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R1638              | D0GDR00JA072 | MT-GLAZE 0.000 ZA 1/10W |
|                    | D0GDR00Z0002 | MT-GLAZE 0.000 ZA 1/10W |
| R1640              | D0GDR00JA072 | MT-GLAZE 0.000 ZA 1/10W |
|                    | D0GDR00Z0002 | MT-GLAZE 0.000 ZA 1/10W |
| R1641              | D0GB470J0002 | MT-GLAZE 47 JA 1/10W    |

| Schematic Location | Part No.     | Description             |
|--------------------|--------------|-------------------------|
| R1643              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R1644              | D0GB471ZA037 | MT-GLAZE 470 FA 1/10W   |
| R1645              | D0GB102ZA038 | MT-GLAZE 1K FA 1/10W    |
| R1647              | D0GB680JA072 | MT-GLAZE 68 JA 1/10W    |
| R1648              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R1656              | D0GZ470JA017 | MT-GLAZE 47 JA 1W       |
| R1657              | D0GZ220JA017 | MT-GLAZE 22 JA 1W       |
| R1660              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R1661              | D0GB222JA072 | MT-GLAZE 2.2K JA 1/10W  |
| R1662              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R1664              | D0GB121ZA038 | MT-GLAZE 120 FA 1/10W   |
| R1665              | D0GB120JA072 | MT-GLAZE 12 JA 1/10W    |
| R1666              | D0GB821ZA037 | MT-GLAZE 820 FA 1/10W   |
| R1682              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R1684              | D0GZ471JA019 | MT-GLAZE 470 JA 1W      |
| R1685              | D0GZR47JA017 | MT-GLAZE 0.47 JA 1W     |
| R1701              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R1702              | D0GB223JA070 | MT-GLAZE 22K JA 1/10W   |
| R1703              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R1704              | D0GB102ZA038 | MT-GLAZE 1K FA 1/10W    |
| R1705              | D0GB562JA072 | MT-GLAZE 5.6K JA 1/10W  |
| R1707              | D0GB472ZA038 | MT-GLAZE 4.7K FA 1/10W  |
| R1709              | D0GB561JA069 | MT-GLAZE 560 JA 1/10W   |
| R1800              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R1801              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R1802              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R1805              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R1806              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R1807              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R1808              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R1810              | D0GB331JA069 | MT-GLAZE 330 JA 1/10W   |
| R1811              | D0GB331JA069 | MT-GLAZE 330 JA 1/10W   |
| R1812              | D0GB122JA072 | MT-GLAZE 1.2K JA 1/10W  |
| R1813              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R1815              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R1826              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R1827              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R1833              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R1835              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R1850              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R1851              | D0GB104JA068 | MT-GLAZE 100K JA 1/10W  |
| R1852              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R1853              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R1854              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R1856              | D0GB472JA072 | MT-GLAZE 4.7K JA 1/10W  |
| R1858              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R1869              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R2404              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R2405              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R2406              | D0GB154JA068 | MT-GLAZE 150K JA 1/10W  |
| R2407              | D0GB224JA068 | MT-GLAZE 220K JA 1/10W  |
| R2408              | D0GB154JA068 | MT-GLAZE 150K JA 1/10W  |
| R2409              | D0GB224JA068 | MT-GLAZE 220K JA 1/10W  |
| R2410              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |

| Schematic Location | Part No.     | Description             |
|--------------------|--------------|-------------------------|
| R2411              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R2412              | D0GB472JA072 | MT-GLAZE 4.7K JA 1/10W  |
| R2414              | D0GB334JA068 | MT-GLAZE 330K JA 1/10W  |
| R2415              | D0GB334JA068 | MT-GLAZE 330K JA 1/10W  |
| R2419              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R2420              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R2421              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R2422              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R2426              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R2427              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R2428              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R2429              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R2430              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R2434              | D0GB472JA072 | MT-GLAZE 4.7K JA 1/10W  |
| R2435              | D0GB472JA072 | MT-GLAZE 4.7K JA 1/10W  |
| R2436              | D0GB470J0002 | MT-GLAZE 47 JA 1/10W    |
| R2437              | D0GB470J0002 | MT-GLAZE 47 JA 1/10W    |
| R2438              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R2445              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R2446              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R2448              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R2449              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R2455              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R2457              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R2458              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R2460              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R5500              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R5501              | D0GB472JA072 | MT-GLAZE 4.7K JA 1/10W  |
| R5502              | D0GB152JA072 | MT-GLAZE 1.5K JA 1/10W  |
| R5503              | D0GB472JA072 | MT-GLAZE 4.7K JA 1/10W  |
| R5504              | D0GB152JA072 | MT-GLAZE 1.5K JA 1/10W  |
| R5505              | D0GB472JA072 | MT-GLAZE 4.7K JA 1/10W  |
| R5506              | D0GB472JA072 | MT-GLAZE 4.7K JA 1/10W  |
| R5507              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R5508              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R5509              | D0GB102JA071 | MT-GLAZE 1K JA 1/10W    |
| R5510              | D0GB472JA072 | MT-GLAZE 4.7K JA 1/10W  |
| R5511              | D0GB472JA072 | MT-GLAZE 4.7K JA 1/10W  |
| R5512              | D0GB122ZA038 | MT-GLAZE 1.2K FA 1/10W  |
| R5513              | D0GB182ZA044 | MT-GLAZE 1.8K FA 1/10W  |
| R5514              | D0GB105JA071 | MT-GLAZE 1M JA 1/10W    |
| R5515              | D0GB151JA069 | MT-GLAZE 150 JA 1/10W   |
| R5516              | D0GB750JA072 | MT-GLAZE 75 JA 1/10W    |
| R5517              | D0GB750JA072 | MT-GLAZE 75 JA 1/10W    |
| R5518              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R5519              | D0GB750JA072 | MT-GLAZE 75 JA 1/10W    |
| R5520              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R5521              | D0GB750JA072 | MT-GLAZE 75 JA 1/10W    |
| R5522              | D0GB750JA072 | MT-GLAZE 75 JA 1/10W    |
| R5523              | D0GB750JA072 | MT-GLAZE 75 JA 1/10W    |
| R5524              | D0GB750JA072 | MT-GLAZE 75 JA 1/10W    |
| R5525              | D0GB750JA072 | MT-GLAZE 75 JA 1/10W    |
| R5526              | D0GB750JA072 | MT-GLAZE 75 JA 1/10W    |
| R5527              | D0GB750JA072 | MT-GLAZE 75 JA 1/10W    |

| Schematic Location | Part No.     | Description             |
|--------------------|--------------|-------------------------|
| R5528              | D0GB750JA072 | MT-GLAZE 75 JA 1/10W    |
| R5529              | D0GB750JA072 | MT-GLAZE 75 JA 1/10W    |
| R5530              | D0GB392ZA038 | MT-GLAZE 3.9K FA 1/10W  |
| R5531              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R5532              | D0GB105JA071 | MT-GLAZE 1M JA 1/10W    |
| R5533              | D0GB472JA072 | MT-GLAZE 4.7K JA 1/10W  |
| R5534              | D0GB102JA071 | MT-GLAZE 1K JA 1/10W    |
| R5535              | D0GB820JA072 | MT-GLAZE 82 JA 1/10W    |
| R5536              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R5540              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R5541              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R5542              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R5545              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R5547              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R5548              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R5549              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R5550              | D0GB820JA072 | MT-GLAZE 82 JA 1/10W    |
| R5559              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R5561              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R5562              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R5563              | D0GB102JA071 | MT-GLAZE 1K JA 1/10W    |
| R5565              | D0GB102JA071 | MT-GLAZE 1K JA 1/10W    |
| R5566              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R5568              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R5569              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R5571              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R5572              | JOJCC0000371 | "INDUCTOR, 120 OHM"     |
| R5573              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R5574              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R5575              | JOJCC0000371 | "INDUCTOR, 120 OHM"     |
| R5578              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R5581              | D0GB472JA072 | MT-GLAZE 4.7K JA 1/10W  |
| R5585              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R5586              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R5587              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R5588              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R5591              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R5594              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R5596              | D0GB102JA071 | MT-GLAZE 1K JA 1/10W    |
| R5600              | D0GB472JA072 | MT-GLAZE 4.7K JA 1/10W  |
| R5601              | D0GB472JA072 | MT-GLAZE 4.7K JA 1/10W  |
| R5623              | JOJCC0000371 | "INDUCTOR, 120 OHM"     |
| R5624              | JOJCC0000371 | "INDUCTOR, 120 OHM"     |
| R5700              | D0GB101ZA037 | MT-GLAZE 100 FA 1/10W   |
| R5701              | D0GB101ZA037 | MT-GLAZE 100 FA 1/10W   |
| R5702              | D0GB560ZA040 | MT-GLAZE 56 FA 1/10W    |
| R5703              | D0GB560ZA040 | MT-GLAZE 56 FA 1/10W    |
| R5730              | D0GZR47JA017 | MT-GLAZE 0.47 JA 1W     |
| R5731              | D0GB470J0002 | MT-GLAZE 47 JA 1/10W    |
| R5733              | D0GDR00JA072 | MT-GLAZE 0.000 ZA 1/10W |
|                    | D0GDR00Z0002 | MT-GLAZE 0.000 ZA 1/10W |
| R5736              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R5737              | D0GB471ZA037 | MT-GLAZE 470 FA 1/10W   |

| Schematic Location | Part No.     | Description             |
|--------------------|--------------|-------------------------|
| R5738              | D0GB102ZA038 | MT-GLAZE 1K FA 1/10W    |
| R5740              | D0GB680JA072 | MT-GLAZE 68 JA 1/10W    |
| R5751              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R5753              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R5900              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R5901              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R5902              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R5949              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R5950              | D0GB220JA072 | MT-GLAZE 22 JA 1/10W    |
| R5954              | D0GB102JA071 | MT-GLAZE 1K JA 1/10W    |
| R5955              | D0GB102JA071 | MT-GLAZE 1K JA 1/10W    |
| R5956              | D0GB102JA071 | MT-GLAZE 1K JA 1/10W    |
| R5957              | D0GB102JA071 | MT-GLAZE 1K JA 1/10W    |
| R5959              | D0GB102JA071 | MT-GLAZE 1K JA 1/10W    |
| R6100              | D0GB822JA072 | MT-GLAZE 8.2K JA 1/10W  |
| R6101              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6104              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6105              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6107              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R6109              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R6110              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6116              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6130              | D0GB102JA071 | MT-GLAZE 1K JA 1/10W    |
| R6200              | D0GB222ZA038 | MT-GLAZE 2.2K FA 1/10W  |
| R6201              | D0GB222ZA038 | MT-GLAZE 2.2K FA 1/10W  |
| R6202              | D0GB333ZA038 | MT-GLAZE 33K FA 1/10W   |
| R6203              | D0GB333ZA038 | MT-GLAZE 33K FA 1/10W   |
| R6204              | D0GB683ZA038 | MT-GLAZE 68K FA 1/10W   |
| R6205              | D0GB683ZA038 | MT-GLAZE 68K FA 1/10W   |
| R6206              | D0GB472JA072 | MT-GLAZE 4.7K JA 1/10W  |
| R6207              | D0GB472JA072 | MT-GLAZE 4.7K JA 1/10W  |
| R6208              | D0GB683ZA038 | MT-GLAZE 68K FA 1/10W   |
| R6209              | D0GB683ZA038 | MT-GLAZE 68K FA 1/10W   |
| R6210              | D0GB333ZA038 | MT-GLAZE 33K FA 1/10W   |
| R6211              | D0GB333ZA038 | MT-GLAZE 33K FA 1/10W   |
| R6212              | D0GB222ZA038 | MT-GLAZE 2.2K FA 1/10W  |
| R6213              | D0GB222ZA038 | MT-GLAZE 2.2K FA 1/10W  |
| R6301              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R6305              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R6306              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R6310              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R6311              | D0GB101JA069 | MT-GLAZE 100 JA 1/10W   |
| R6320              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6322              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6323              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6351              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R6509              | D0GB473JA072 | MT-GLAZE 47K JA 1/10W   |
| R6510              | D0GB473JA072 | MT-GLAZE 47K JA 1/10W   |
| R6511              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6512              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6513              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6514              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6515              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |



| Schematic Location | Part No.     | Description             |
|--------------------|--------------|-------------------------|
| R6516              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6517              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6518              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6519              | D0GB470J0002 | MT-GLAZE 47 JA 1/10W    |
| R6520              | D0GB470J0002 | MT-GLAZE 47 JA 1/10W    |
| R6531              | D0GB222JA072 | MT-GLAZE 2.2K JA 1/10W  |
| R6532              | D0GB472JA072 | MT-GLAZE 4.7K JA 1/10W  |
| R6539              | D0GB473JA072 | MT-GLAZE 47K JA 1/10W   |
| R6540              | D0GB473JA072 | MT-GLAZE 47K JA 1/10W   |
| R6541              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6542              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6543              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6544              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6545              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6546              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6547              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6548              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6549              | D0GB470J0002 | MT-GLAZE 47 JA 1/10W    |
| R6550              | D0GB470J0002 | MT-GLAZE 47 JA 1/10W    |
| R6569              | D0GB473JA072 | MT-GLAZE 47K JA 1/10W   |
| R6570              | D0GB473JA072 | MT-GLAZE 47K JA 1/10W   |
| R6571              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6572              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6573              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6575              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6576              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6577              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6578              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6579              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6580              | D0GB470J0002 | MT-GLAZE 47 JA 1/10W    |
| R6581              | D0GB470J0002 | MT-GLAZE 47 JA 1/10W    |
| R6600              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6601              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R6604              | D0GB123ZA038 | MT-GLAZE 12K FA 1/10W   |
| R6630              | D0GB221Z0002 | MT-GLAZE 220 FA 1/10W   |
| R6631              | D0GB470J0002 | MT-GLAZE 47 JA 1/10W    |
| R6632              | D0GB121ZA038 | MT-GLAZE 120 FA 1/10W   |
| R6650              | D0GB121ZA038 | MT-GLAZE 120 FA 1/10W   |
| R6651              | D0GB120JA072 | MT-GLAZE 12 JA 1/10W    |
| R6652              | D0GB221Z0002 | MT-GLAZE 220 FA 1/10W   |
| R8502              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R8504              | D0GB472JA072 | MT-GLAZE 4.7K JA 1/10W  |
| R8506              | D0GB224JA068 | MT-GLAZE 220K JA 1/10W  |
| R8507              | D0GB473JA072 | MT-GLAZE 47K JA 1/10W   |
| R8508              | D0GB103JA072 | MT-GLAZE 10K JA 1/10W   |
| R8509              | D0GDR00JA072 | MT-GLAZE 0.000 ZA 1/10W |
|                    | D0GDR00Z0002 | MT-GLAZE 0.000 ZA 1/10W |
| R8510              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |
| R8511              | D0GBR00JA071 | MT-GLAZE 0.000 ZA 1/10W |

| Schematic Location   | Part No.      | Description                 |
|----------------------|---------------|-----------------------------|
| <b>MISCELLANEOUS</b> |               |                             |
| △ A100               | 1AA0B10N310M0 | "ASSY,PWB,MAIN_B-J4JF_SEI"  |
| △ A201               | 1AA0B10N3250A | "ASSY,PWB,KEY_SW J4JF"      |
| △ A202               | 1AA0B10N3250B | "ASSY,PWB,RC J4JF"          |
| △ A3900              | B3RAB0000094  | "UNIT,REMOCON,RECEIVER"     |
| △ A6100              | J3ABAA000002  | "TUNER,U/V"                 |
| △ EL901              | 1AV4T44B02900 | PDP MODULE                  |
| EL902                | 1AV4Z12B62000 | OPTICAL FILTER              |
|                      | 1AV4Z12B66700 | OPTICAL FILTER              |
| KAC                  | J0HAYY000120  | "UNIT,NOISE FILTER"         |
| K1004                | K2HA9YYB0006  | "JACK,RCA-9"                |
| K1005                | K2HA6YYB0012  | "JACK,RCA-6"                |
| K2401                | K2HC1YYB0066  | "JACK,PHONE D3.6"           |
| K2402                | K1FY115B0028  | "SOCKET,D-SUB 15P"          |
| K6501                | K1FY119E0034  | "SOCKET,IF(HDMI) 19P"       |
| K6502                | K1FY119E0034  | "SOCKET,IF(HDMI) 19P"       |
| K6503                | K1FY119E0034  | "SOCKET,IF(HDMI) 19P"       |
| KUSB                 | K1FY104B0069  | "SOCKET,USB 4P"             |
| SPL                  | L0AA12C00015  | "SPEAKER,8"                 |
| SPR                  | L0AA12C00015  | "SPEAKER,8"                 |
| WK5LV-PN             | K4EY9YY00001  | "CORD 50INCH,40P-31P(LVDS)" |
| X5500                | H0J541500001  | "OSC,CRYSTAL 54.1MHZ"       |
| X5501                | H0J240500075  | "OSC,CRYSTAL 24MHZ"         |
| X800                 | H2D800400015  | "OSC,CERAMIC 8.00MHZ"       |
| X801                 | H0A327200178  | "OSC,CRYSTAL 32.768KHZ"     |

# ASSEMBLY BOARD REPLACEMENTS (SERVICE PARTS)

"For Main unit replacement please get the correct assembly name/part number"

Service Name: ASSY,PWB,MAIN\_B-J4JF\_SEI

Japan BOM part number: 1AA0B10N310M0

"For PDP Panel replacement please get the correct assembly name/part number"

Service Name: PDP PANEL

Japan BOM part number: 8MD50H13M1J--

"For KEW\_SW unit replacement please get the correct assembly name/part number"

Service Name: ASSY,PWB,KEY\_SW J4JF

Japan BOM part number: 1AA0B10N3250A

"For RC\_LED unit replacement please get the correct assembly name/part number"

Service Name: ASSY,PWB,RC J4JF

Japan BOM part number: 1AA0B10N3250B

"For Power Board replacement please get the correct assembly name/part number"

Service Name: ASSY.PWB POWER P

Japan BOM part number: 8N0AB6JK00001

"For Circuit Board C1 replacement please get the correct assembly name/part number"

Service Name: PCB CIRCUIT BOARD C1

Japan BOM part number: 8TXNC111FEV--

"For Circuit Board C2 replacement please get the correct assembly name/part number"

Service Name: PCB CIRCUIT BOARD C2

Japan BOM part number: 8TXNC211FEV--

"For Circuit Board SC replacement please get the correct assembly name/part number"

Service Name: PCB CIRCUIT BOARD SC

Japan BOM part number: 8TXNSC11FEV--

"For Circuit Board SD replacement please get the correct assembly name/part number"

Service Name: PCB CIRCUIT BOARD SD

Japan BOM part number: 8TXNSD11FEV--

"For Circuit Board SS replacement please get the correct assembly name/part number"

Service Name: PCB CIRCUIT BOARD SS

Japan BOM part number: 8TXNSS11FEV--

"For Circuit Board SU replacement please get the correct assembly name/part number"

Service Name: PCB CIRCUIT BOARD SU

Japan BOM part number: 8TXNSS11FEV--

"For Logic Unit Board replacement please get the correct assembly name/part number"

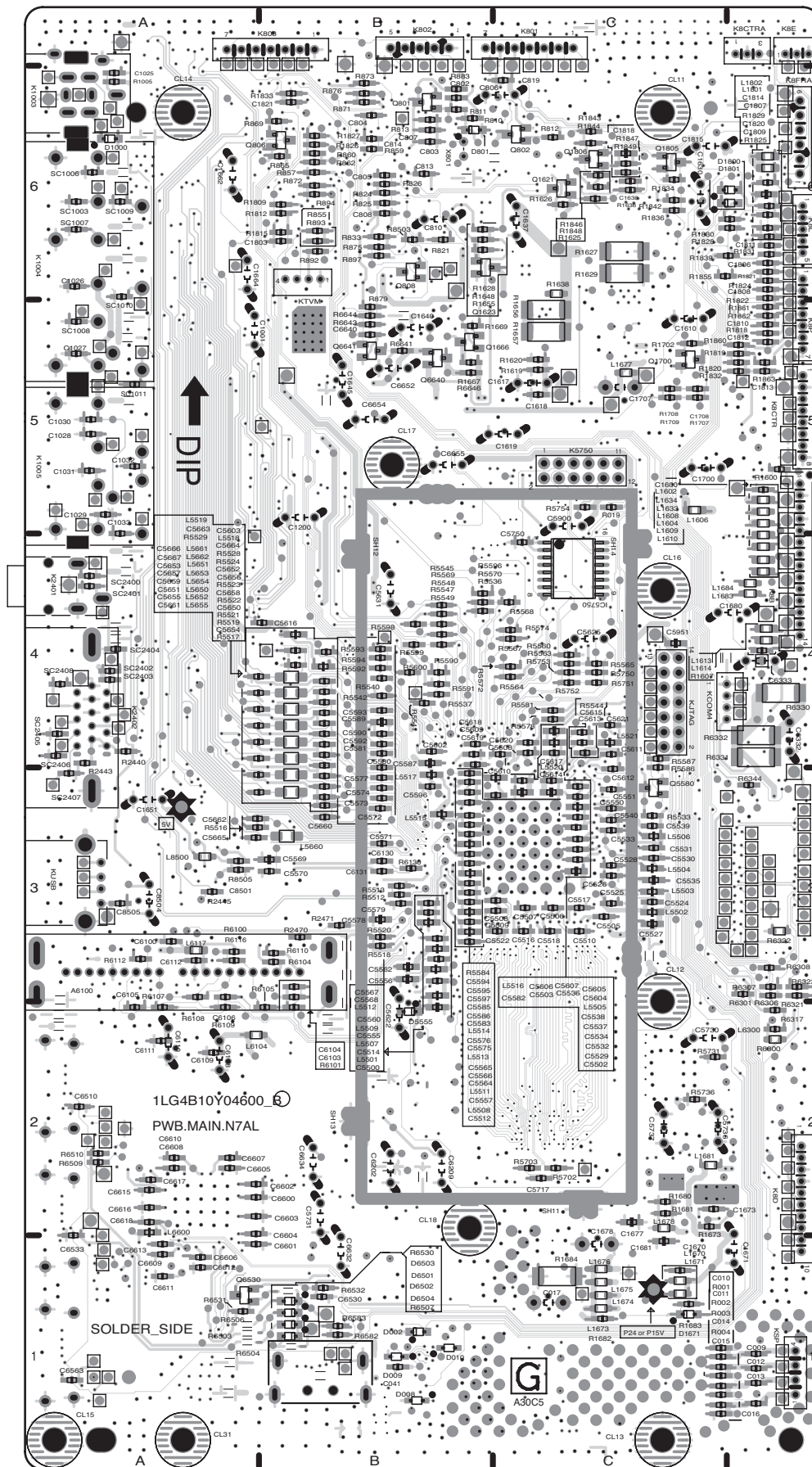
Service Name: INTERFACE, DIGITALPRO, D

Japan BOM part number: 8TZTNP011FEV--

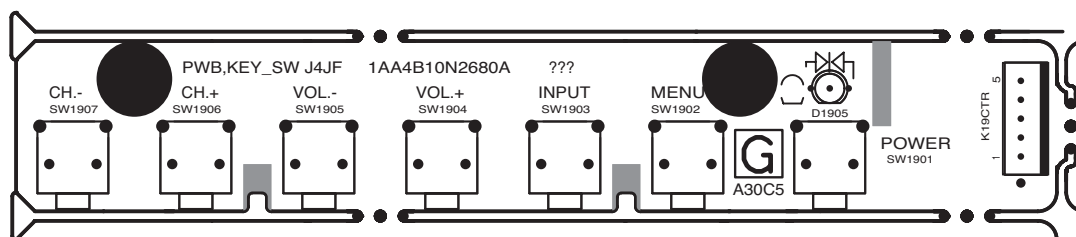
## MAIN BOARD PARTS SIDE



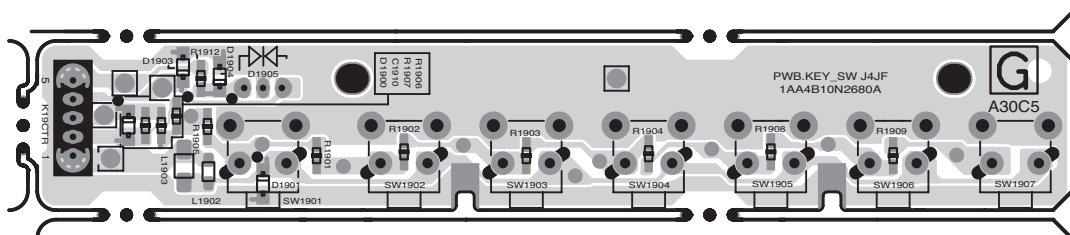
## MAIN BOARD SOLDER SIDE



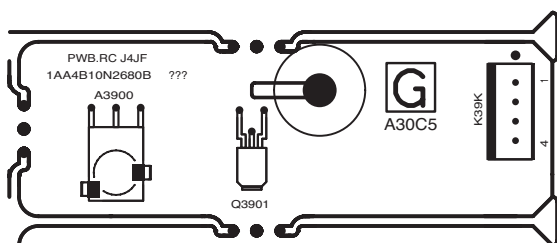
## CONTROL BOARD PART SIDE



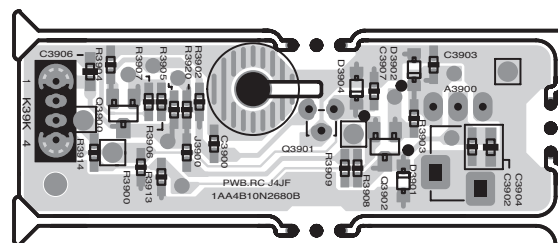
## CONTROL BOARD SOLDER SIDE



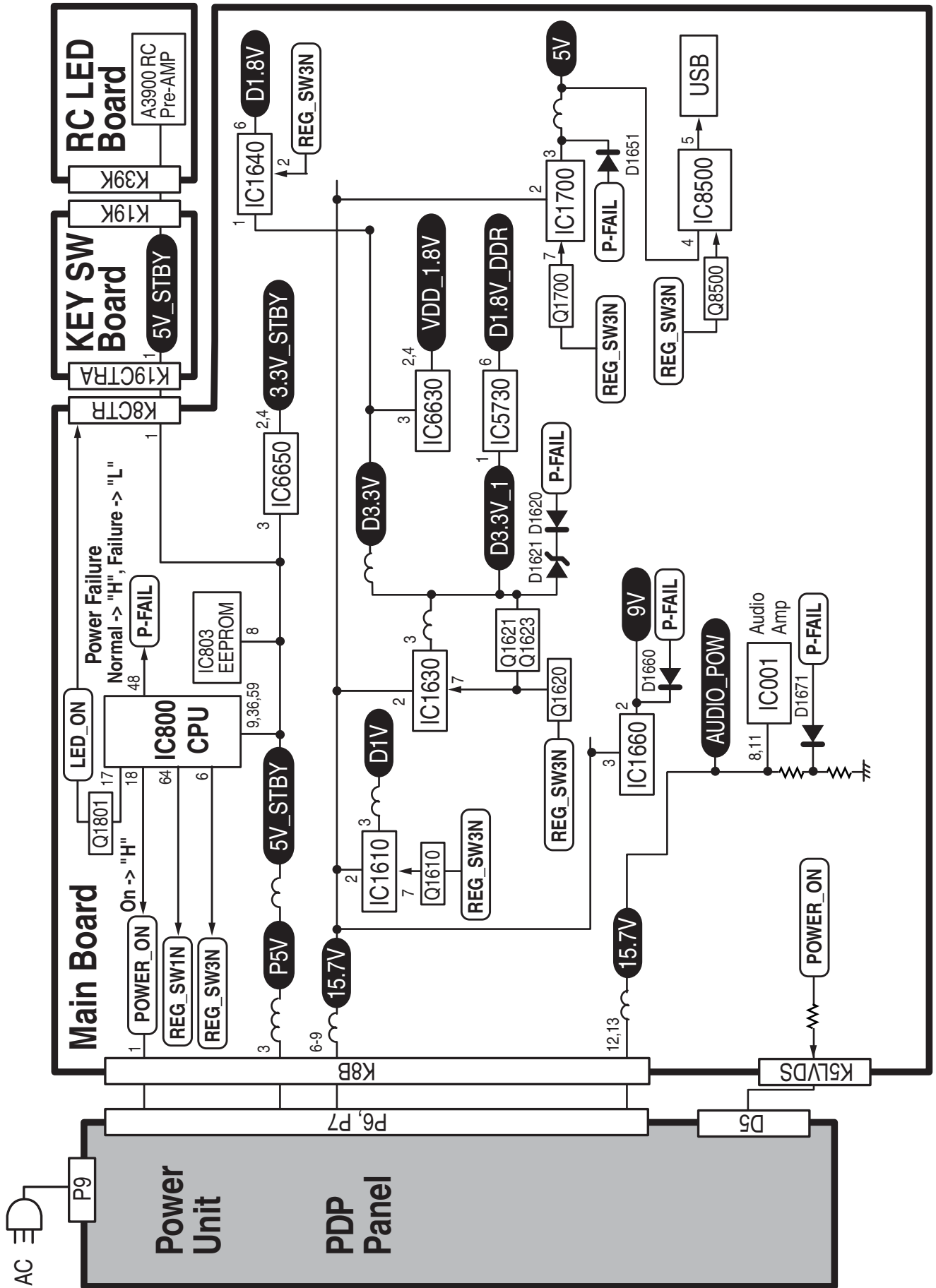
### PWB RC\_LED PART SIDE



### PWB RC\_LED SOLDER SIDE

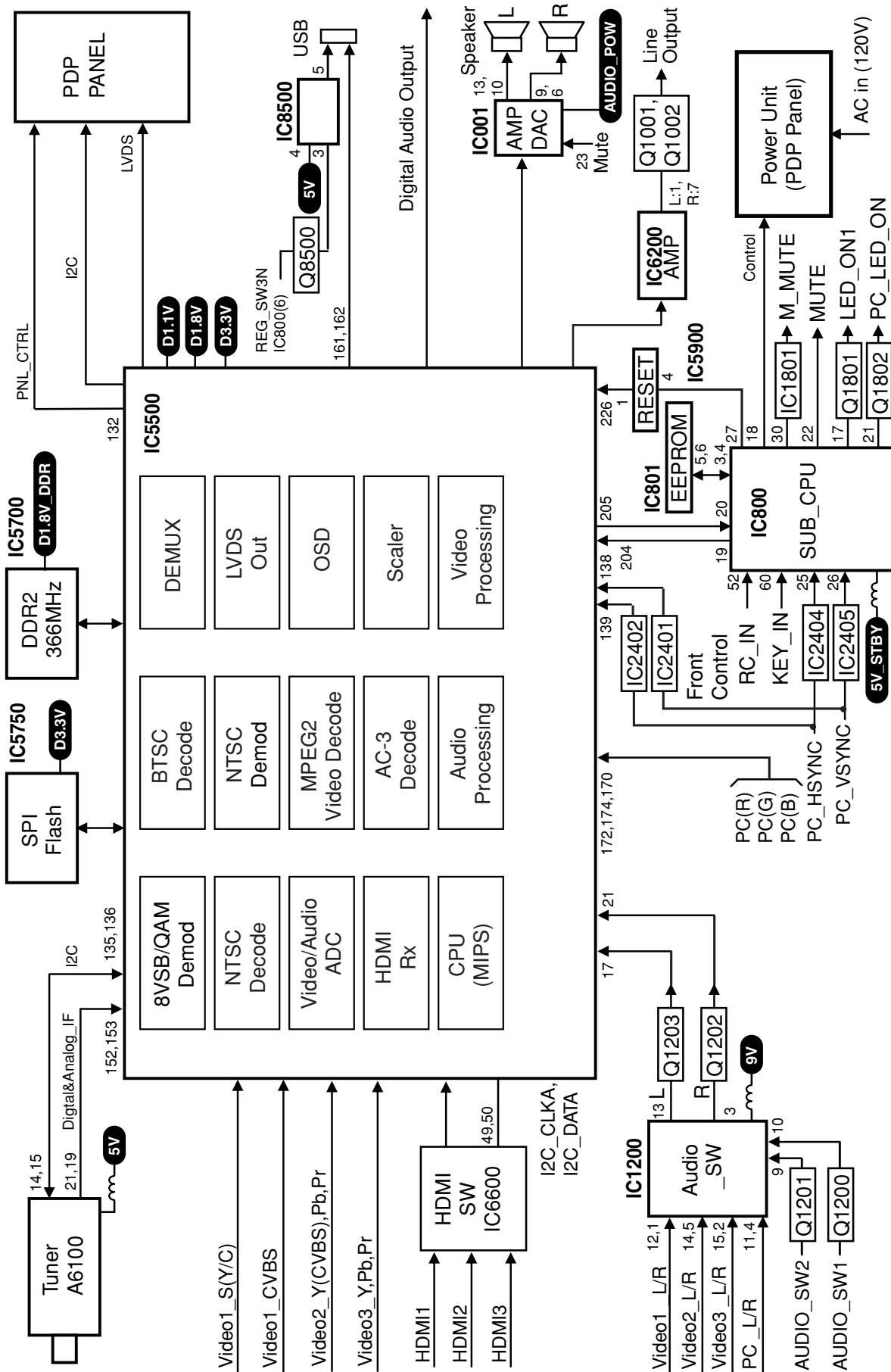


# BLOCK DIAGRAM POWER LINES





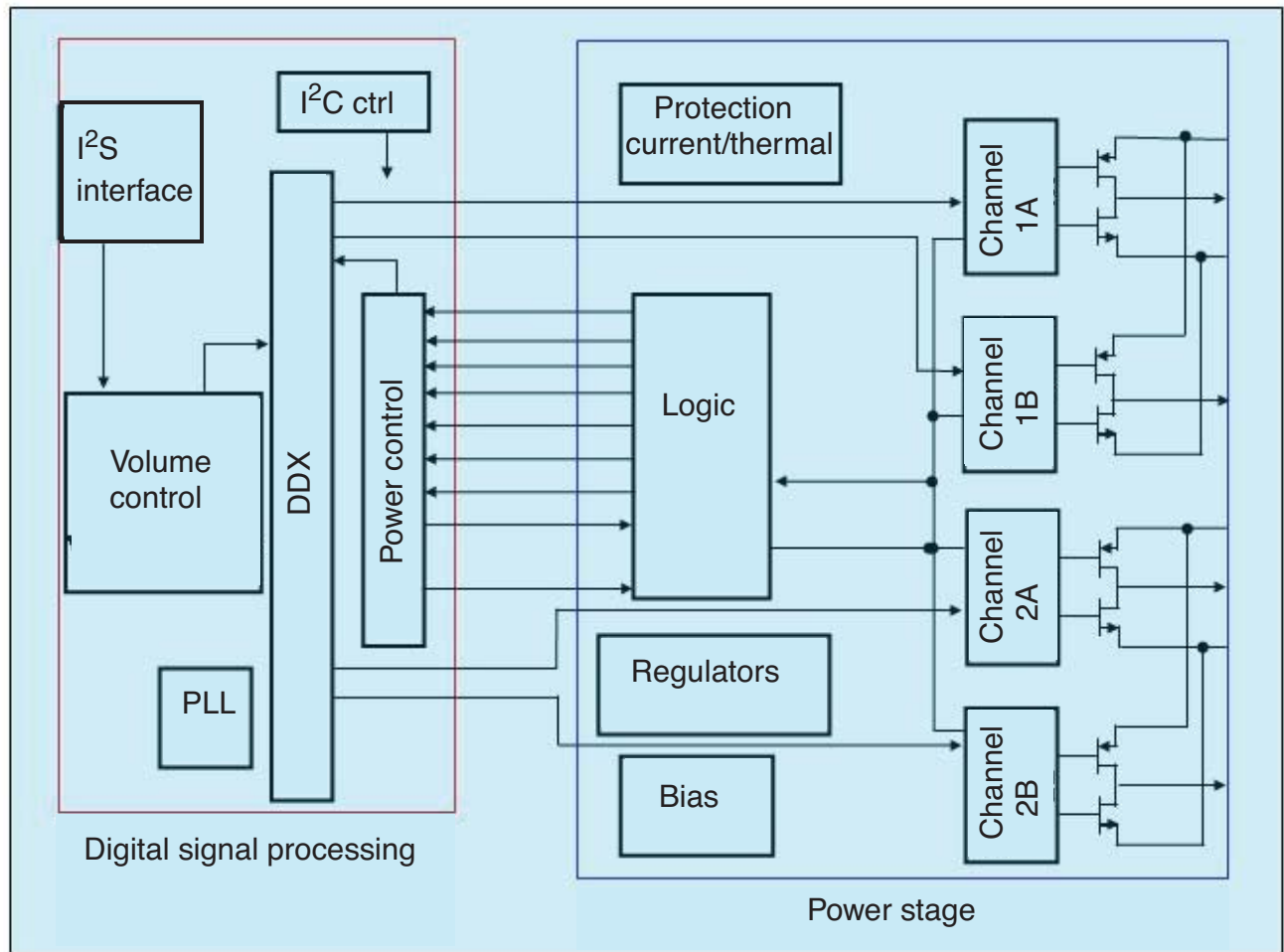
# BLOCK DIAGRAM SIGNAL LINES





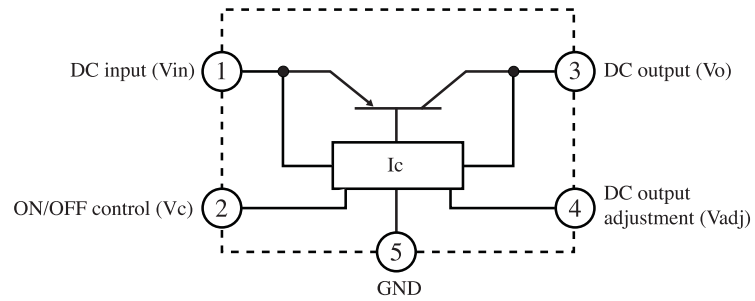
# IC BLOCK DIAGRAMS

## IC001, Audio AMP

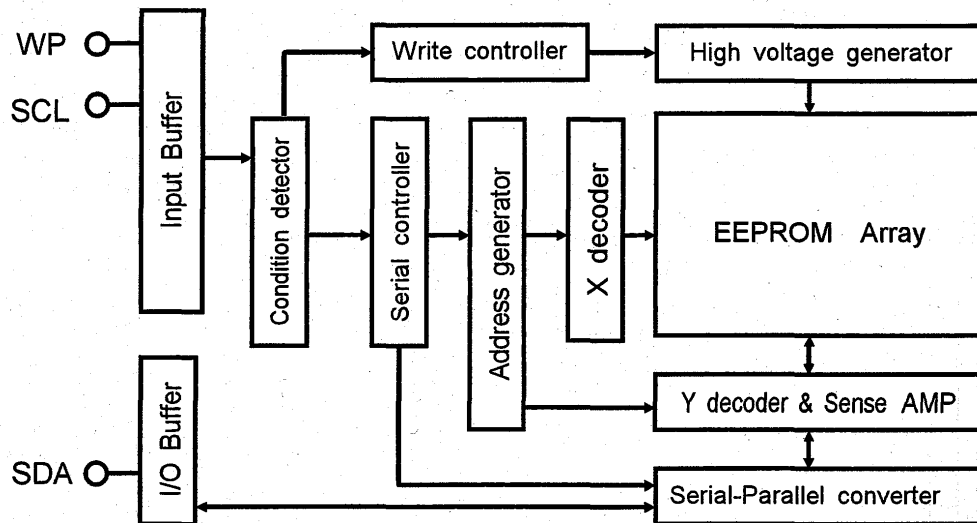


## IC BLOCK DIAGRAMS (CONT.)

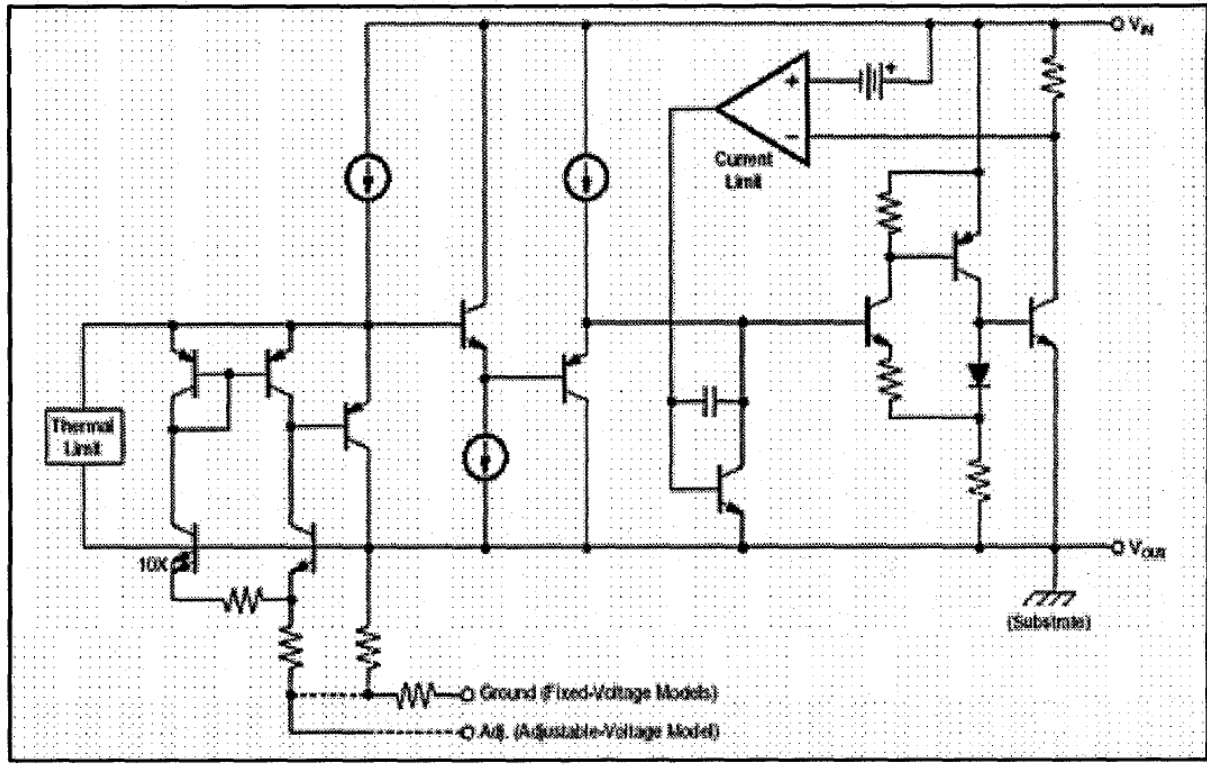
### IC1640, IC5730 DC to DC Converter



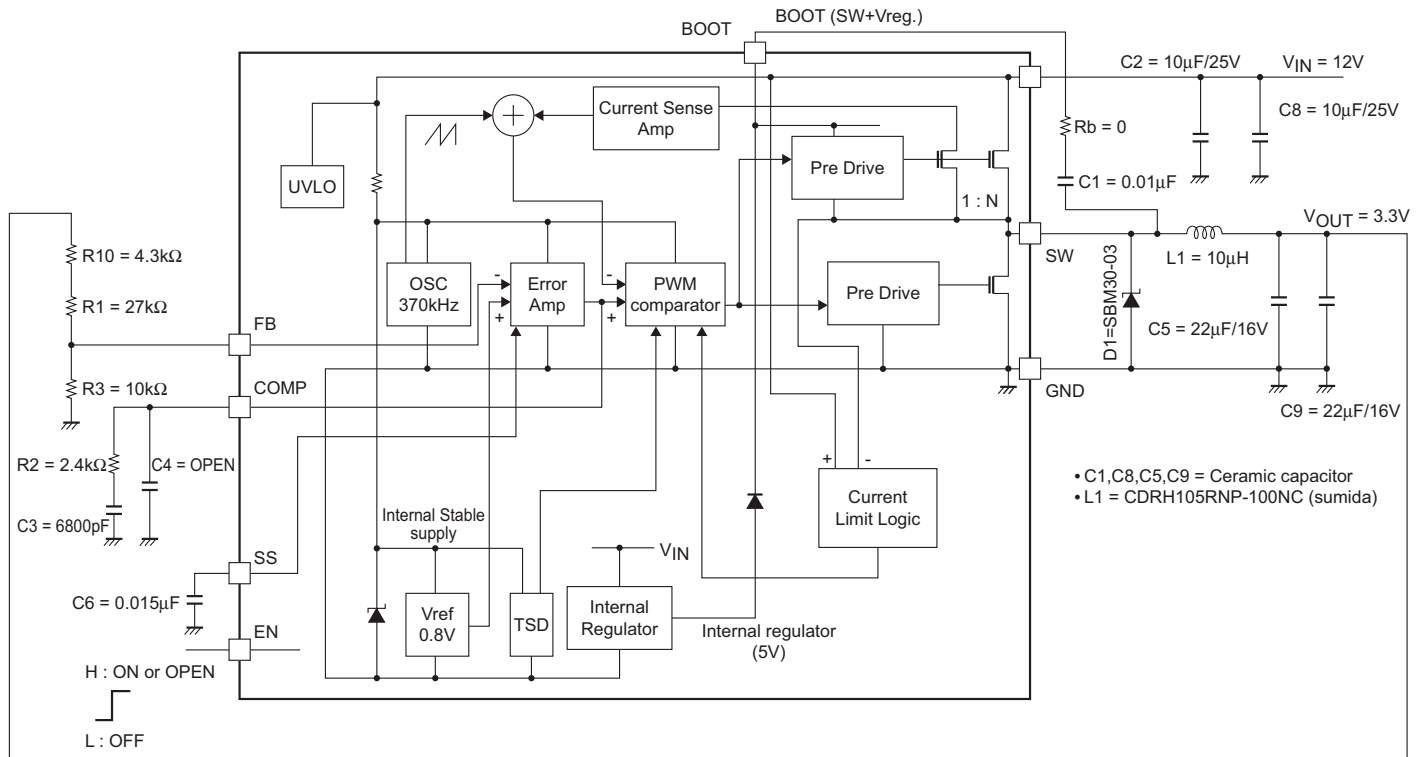
### IC801, EEPROM



## IC1660, DC to DC Converter

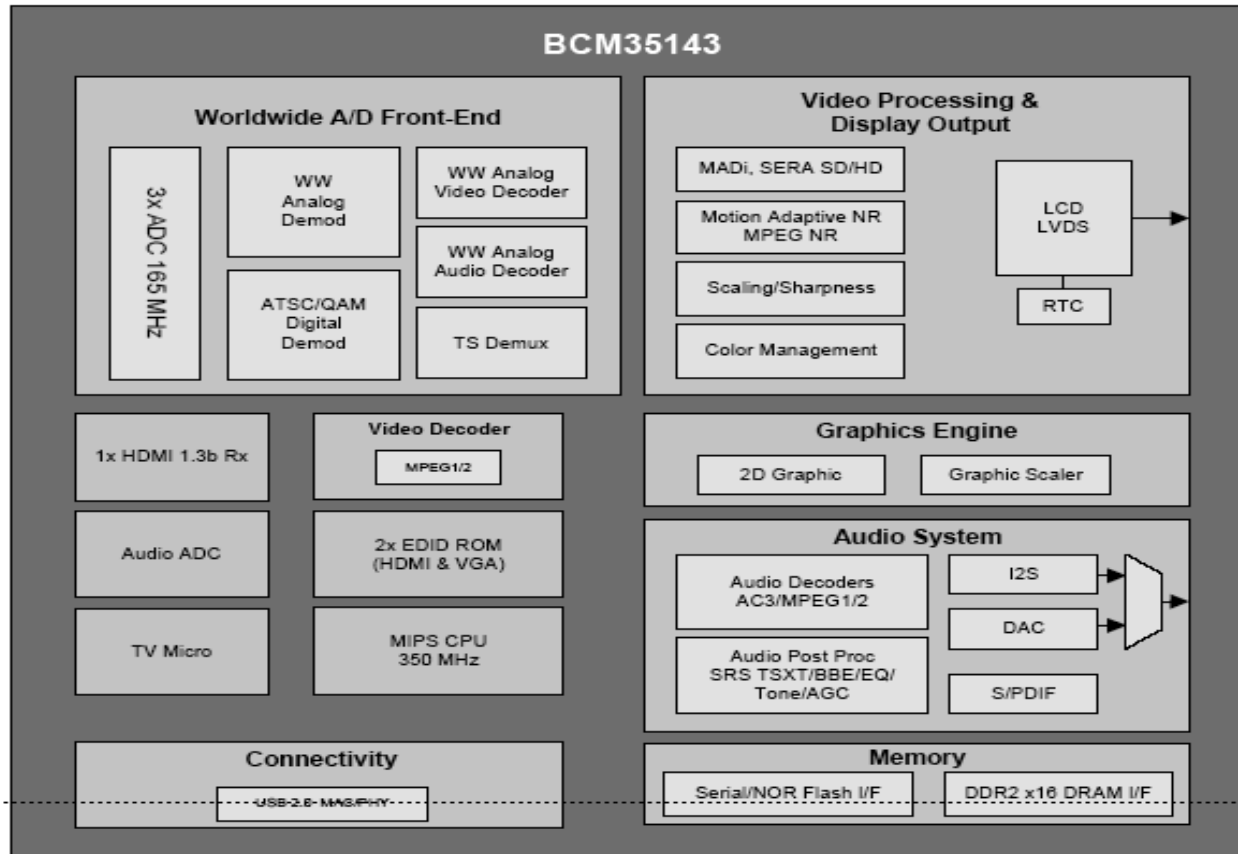


## IC1670, DC to DC Converter

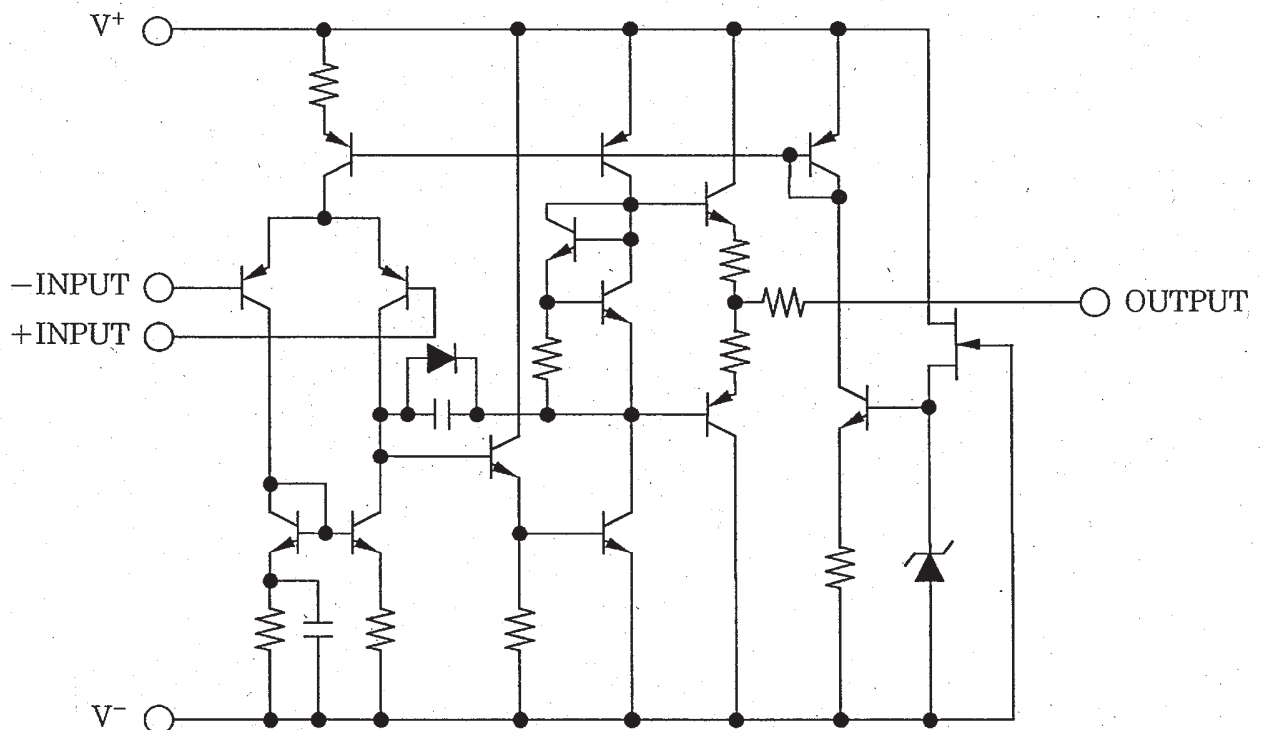


## IC BLOCK DIAGRAMS (CONT.)

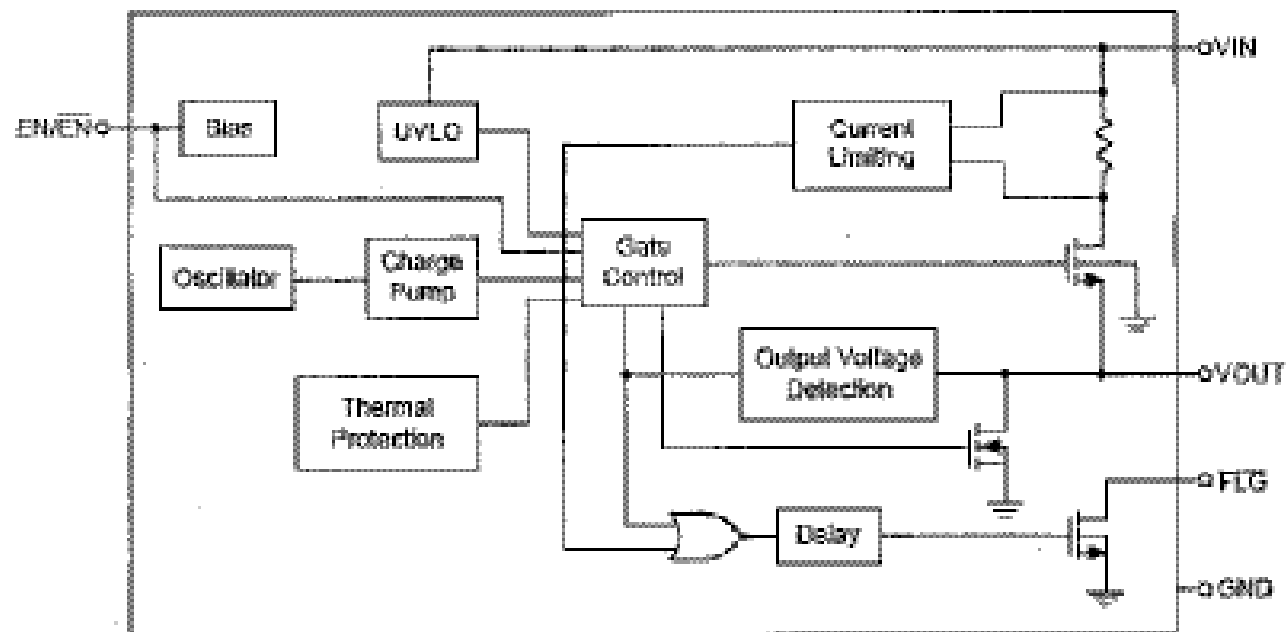
### IC5500 Block Diagram



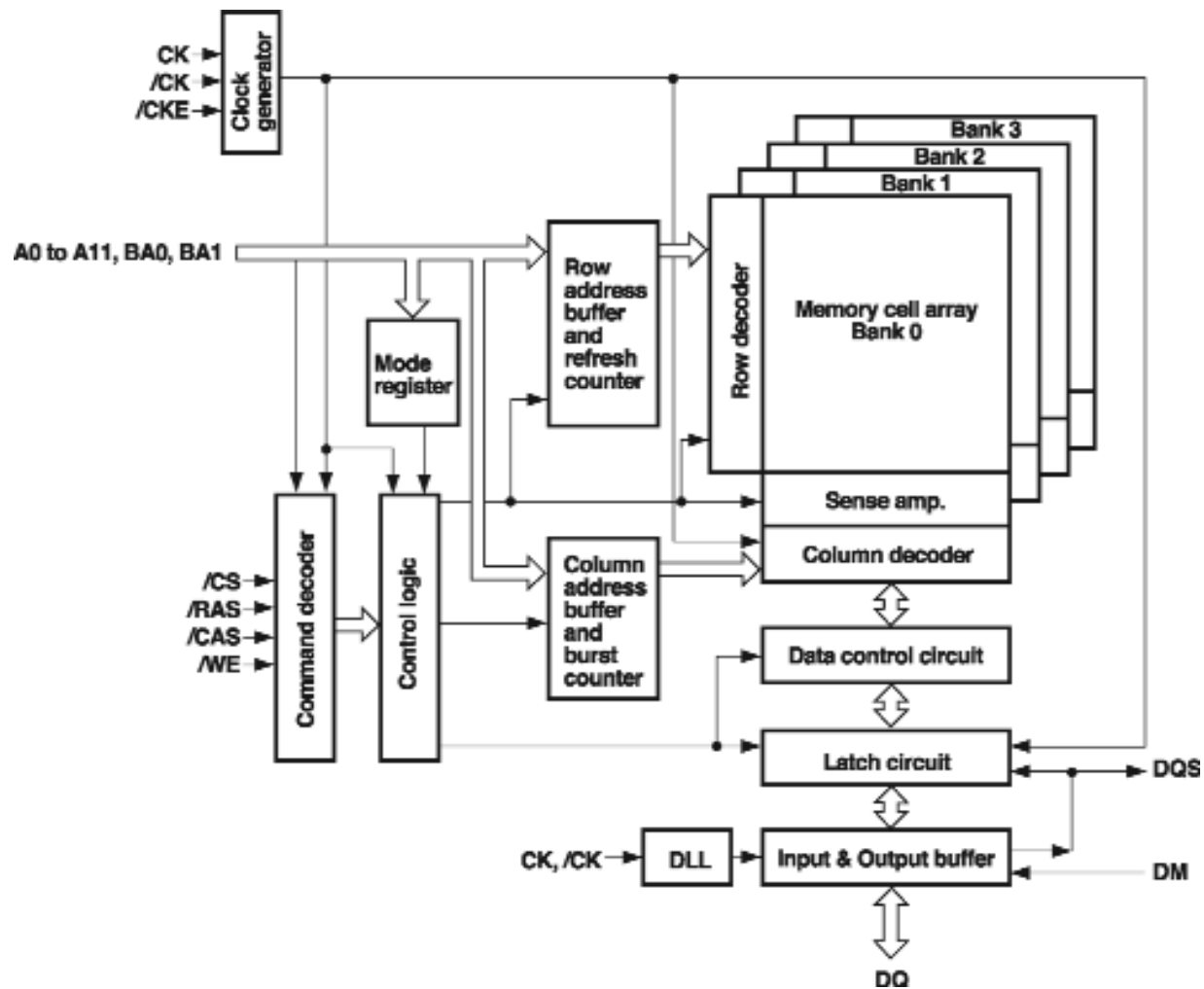
### IC6200, Low output Amplifier



IC8500, USB Protection

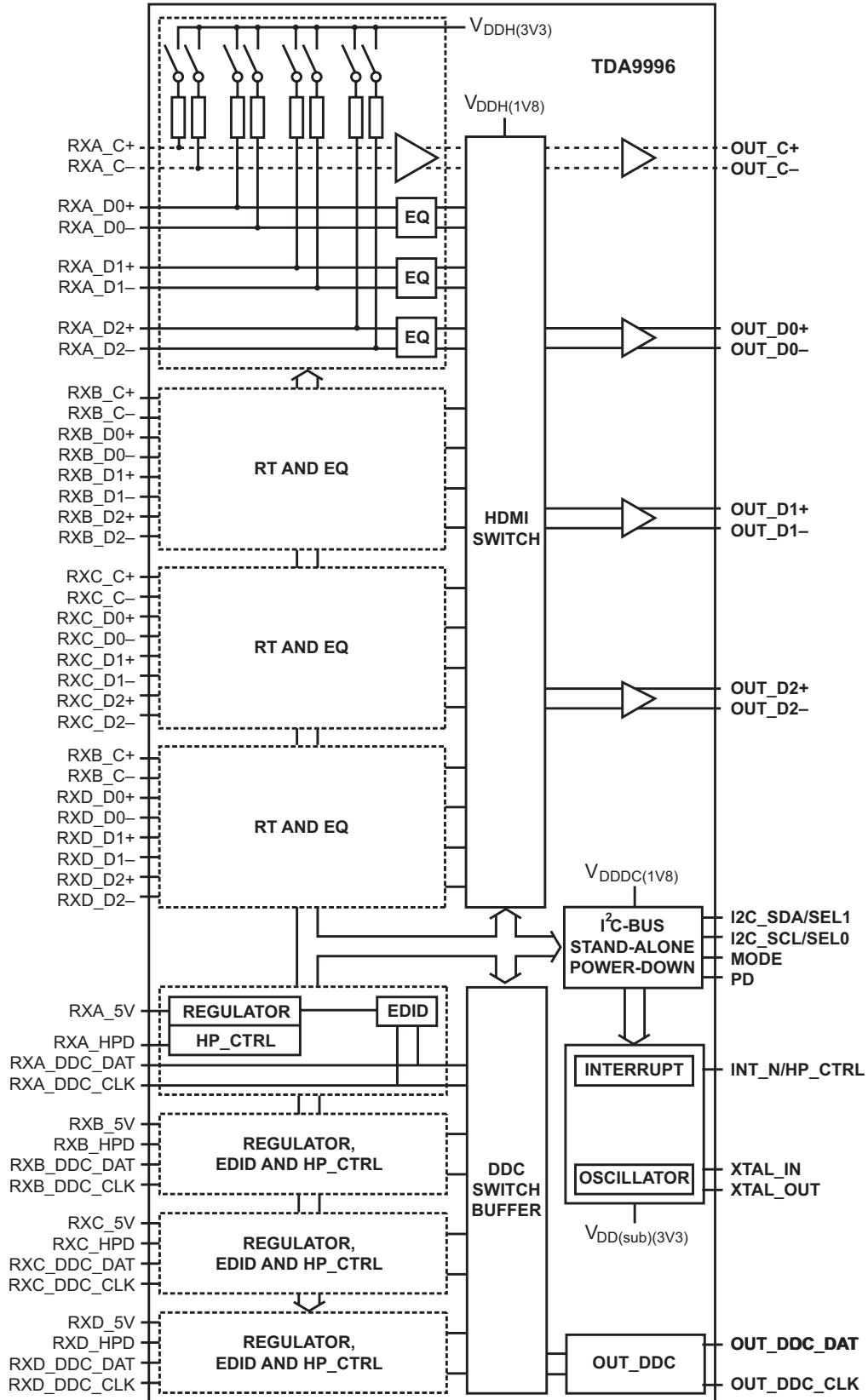


IC5700, DDR: Double Data Rate SDRAM



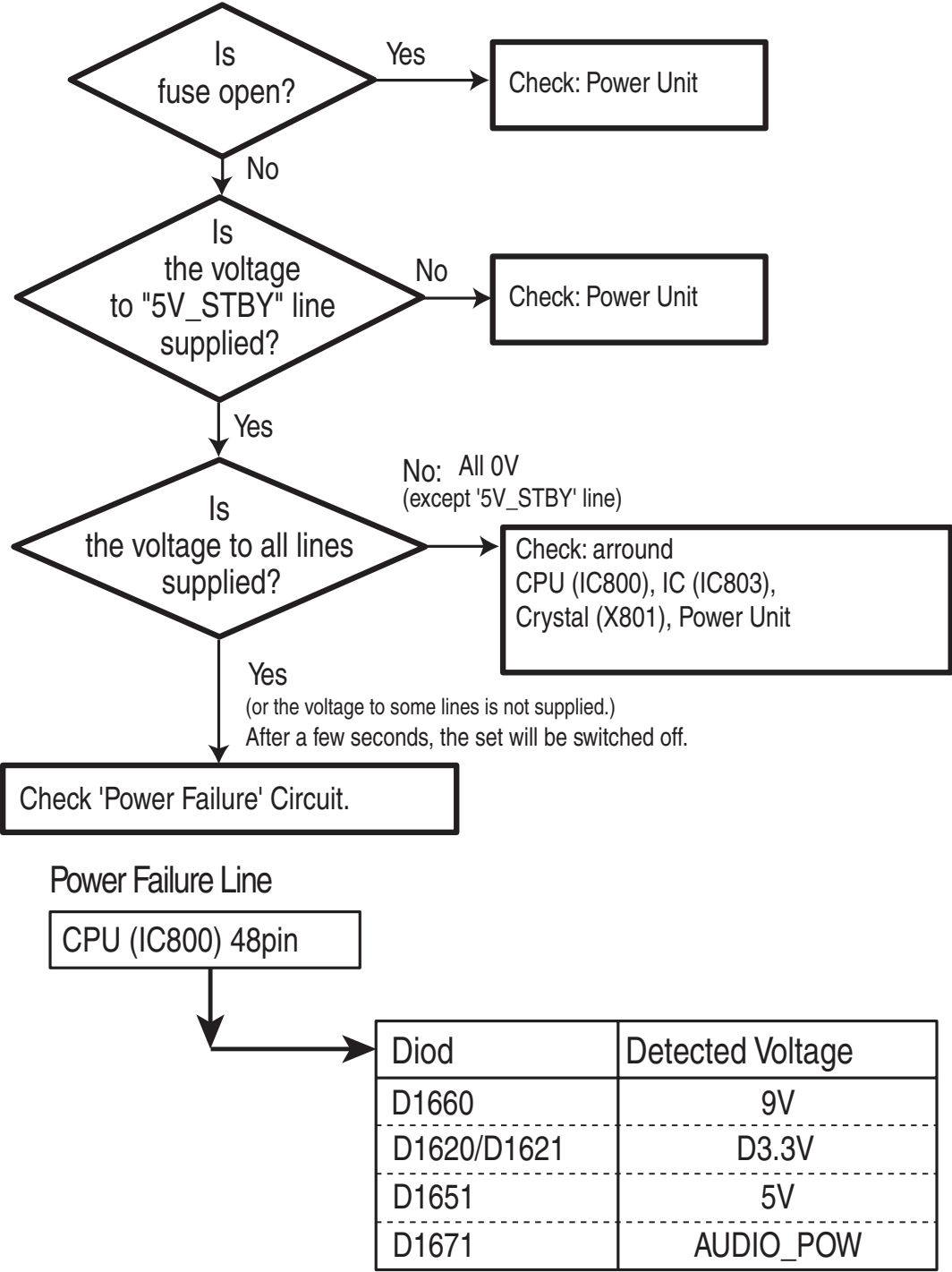
# IC BLOCK DIAGRAMS (CONT.)

## IC6600, HDMI SELECTOR



# TROUBLESHOOTING FLOW CHARTS

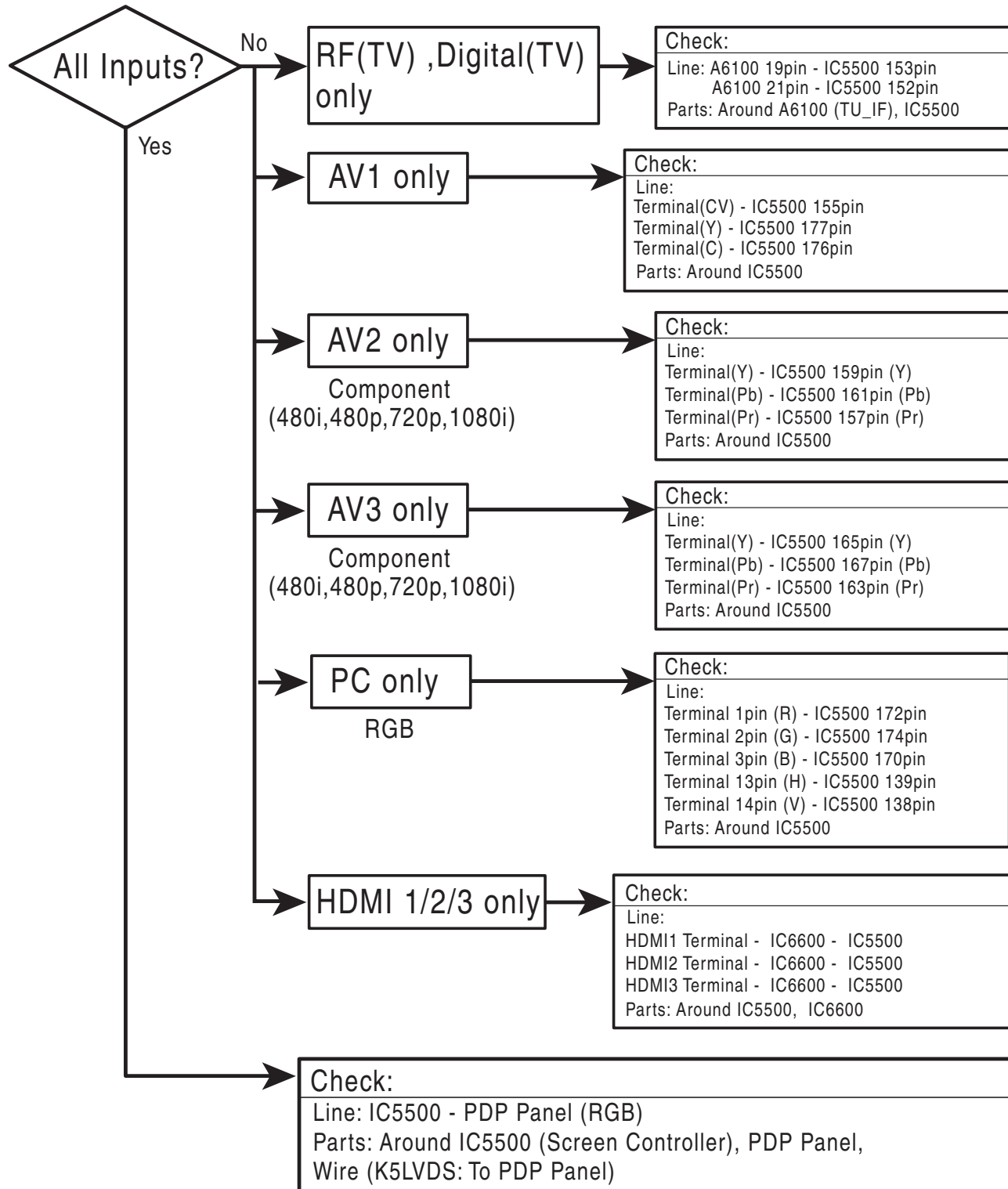
## NO POWER





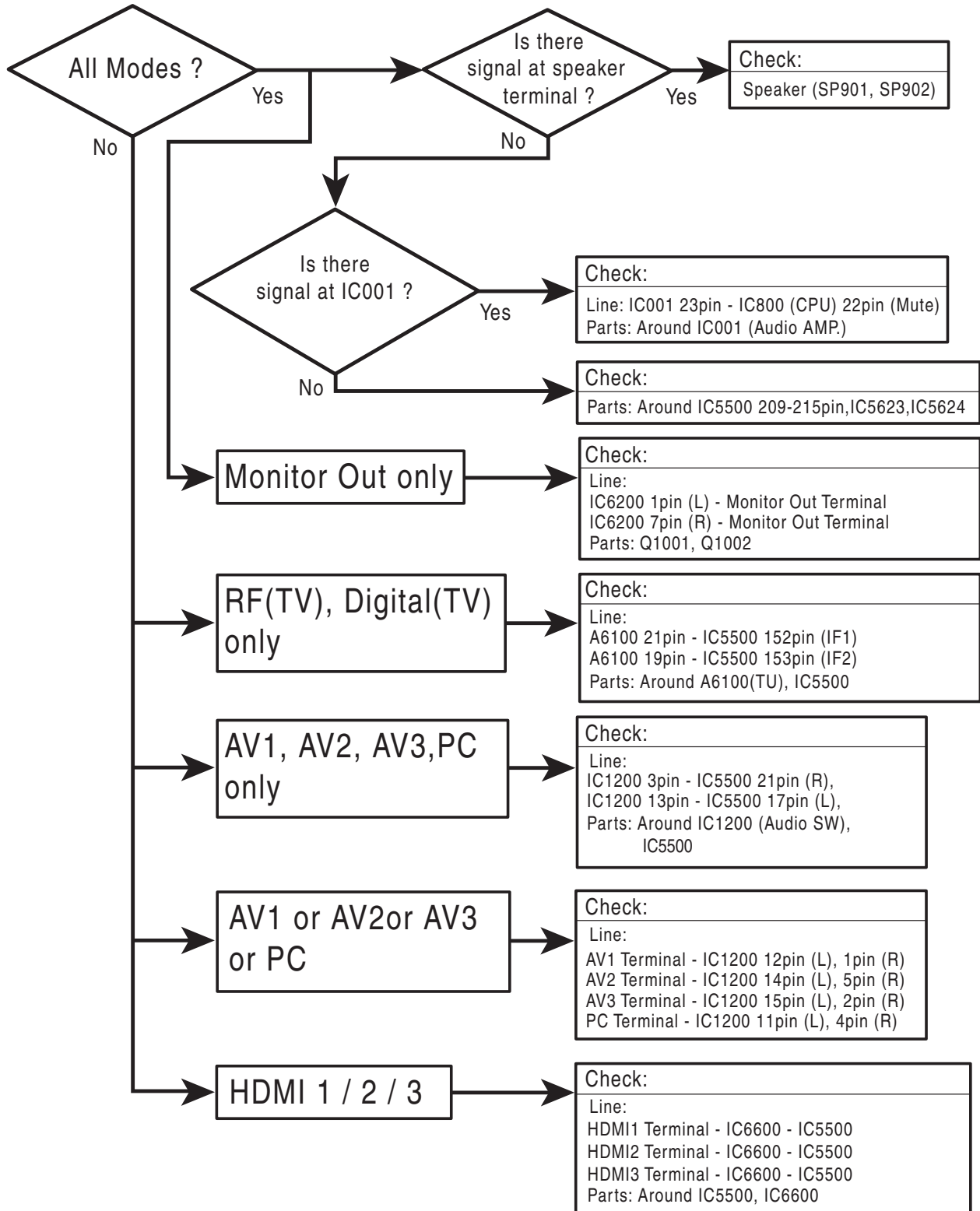
## TROUBLESHOOTING FLOW CHARTS (CONT.)

NO VIDEO



## TROUBLESHOOTING FLOW CHARTS (CONT.)

### NO AUDIO



# CONTROL PORT FUNCTIONS

## System Control (CPU : IC800)

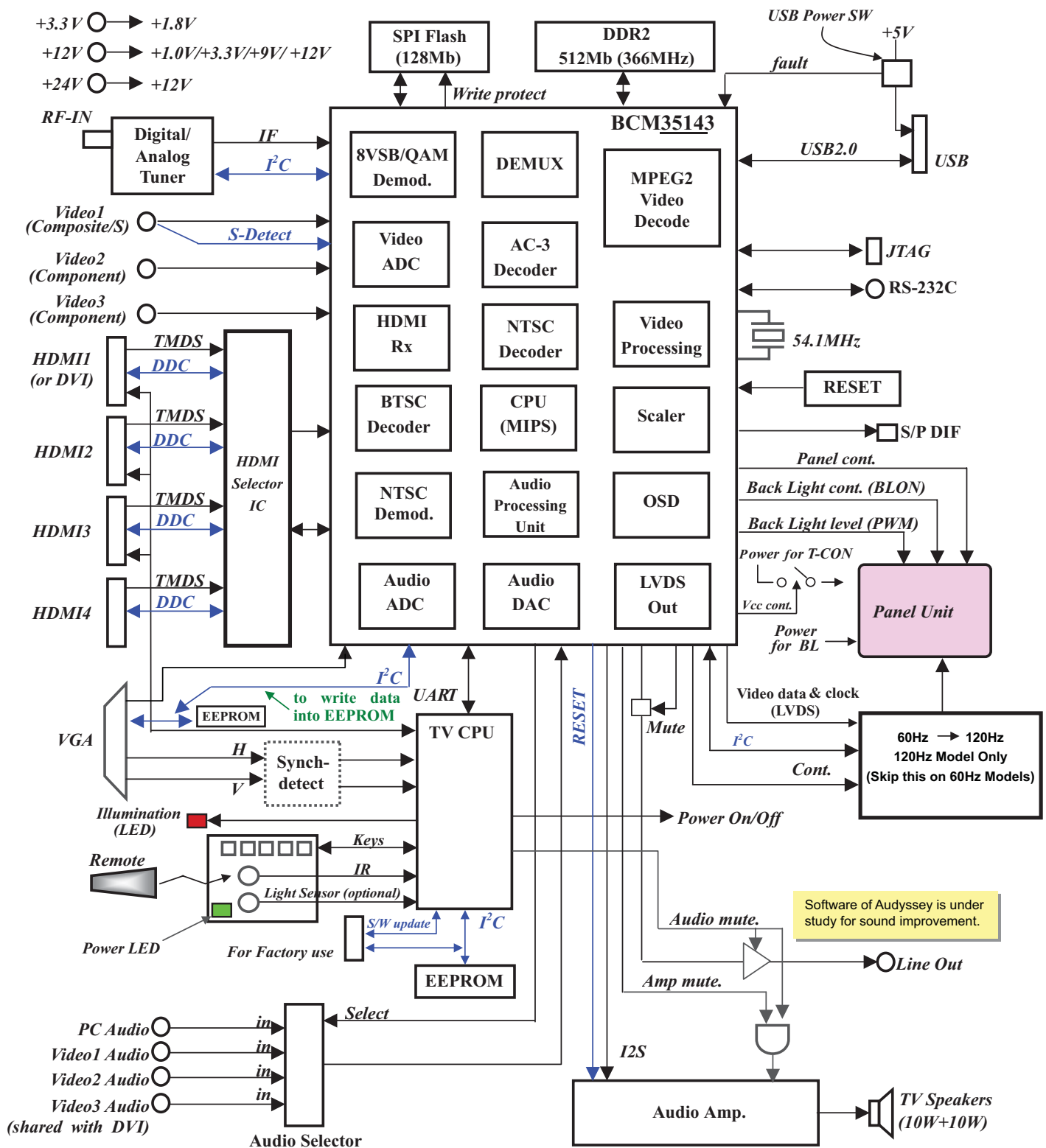
| PIN | IC specification  | Assignment       | I/O | Explanation                                                    |
|-----|-------------------|------------------|-----|----------------------------------------------------------------|
| 1   | P12/SCK0          | REG SW4          | OUT | no use (REG SW4)                                               |
| 2   | P13/SO1           | REG SW5          | OUT | no use (REG SW5)                                               |
| 3   | P14/SI1/SB1       | IIC-BUS for NV   | I/O | Data of IIC Bus Active 'L' for IIC data NV                     |
| 4   | P15/SCK1          | IIC-BUS for NV   | OUT | Clock of IIC Bus Active 'L' for IIC clock NV                   |
| 5   | P16/T1PWML        | REG SW2          | OUT | REG SW2 (ON : High OFF : Low)                                  |
| 6   | P17/T1PWMH/BUZ    | REG SW3          | OUT | REG SW3 (ON : Low OFF : High)                                  |
| 7   | PWM2              | illumination     | OUT | no use (illumination LED output )                              |
| 8   | PWM3              | no use (PWR_DET) | IN  | no use (PWR DET)                                               |
| 9   | VDD2              | Power IN         | IN  | VDD2 (5Vdc±10%)                                                |
| 10  | VSS2              | Vss              | IN  | GND (0Vdc)                                                     |
| 11  | P00               | Category2        | IN  | Hard option for category (See other sheet,Zoran/BRCM model)    |
| 12  | P01               | Category1        | IN  | Hard option for category (See other sheet,Zoran/BRCM model)    |
| 13  | P02               | Category0        | IN  | Hard option for category (See other sheet,Zoran/BRCM model)    |
| 14  | P03               | Panel Size2      | IN  | Hard option for panel size (See other sheet,Zoran/BRCM model)  |
| 15  | P04               | Panel Size1      | IN  | Hard option for panel size (See other sheet,Zoran/BRCM model)  |
| 16  | P05/CKO           | Panel Size0      | IN  | Hard option for panel size (See other sheet,Zoran/BRCM model)  |
| 17  | P06/T6O           | LED CNTRL        | OUT | LED Control output for Power indicator                         |
| 18  | P07/T7O           | TV Relay out     | OUT | POWER Relay control output ON : High OFF : Low                 |
| 19  | P20/UTX/INT4/T1IN | UART OUT         | OUT | Output of UART(Digital Module microcomputer piece confidence ) |
| 20  | P21/URX/INT4/T1IN | UART IN          | IN  | Input of UART (Digital Module microcomputer piece confidence)  |
| 21  | P22/INT4/T1IN     | PC Standby LED   | OUT | LED control of PC Standby High_NoramL_Low                      |
| 22  | P23/INT4/T1IN     | Audio MUTE       | OUT | Audio Mute MUTE ON : Low OFF : High                            |
| 23  | P24/INT5/T1IN     | Power Fail-2 IN  | IN  | no use (LVDS Power Fail input for LCD model)                   |
| 24  | P25/INT5/T1IN     | AMP_STBY         | OUT | no use (AMP Standby control)                                   |
| 25  | P26/INT5/T1IN     | HS_DET           | IN  | Detect H-Sync (Detect : High , PC Input)                       |
| 26  | P27/INT5/T1IN     | VS_DET           | IN  | Detect V-Sync (Detect : High , PC Input)                       |
| 27  | PB7               | RESET_TV         | OUT | RESET_TV => for DM Watch Dog Timer                             |
| 28  | PB6               | Boot_SEL1        | OUT | no use (Starting DM S/W download-SEL1 for US1T model)          |
| 29  | PB5               | Boot_SEL2        | OUT | no use (Starting DM S/W download-SEL2 for US1T model)          |
| 30  | PB4               | M_OUT MUTE       | OUT | MUTE ON:Low OFF:High                                           |
| 31  | PB3               | LINE OFF_DET     | OUT | Detect LINE OFF output(Detect: High -> Low)                    |
| 32  | PB2               | Reserve          | OUT | Reserve (Set Low level)                                        |
| 33  | PB1               | Reserve          | OUT | Reserve (Set Low level)                                        |
| 34  | PB0               | Solution         | IN  | High:AMD Low:Zoran                                             |
| 35  | VSS3              | Vss              | IN  | GND (0Vdc)                                                     |
| 36  | VDD3              | Power IN         | IN  | VDD3 (5Vdc±10%)                                                |
| 37  | PC7               | DBGP2            | IN  | Terminal for De-Bug 3                                          |
| 38  | PC6               | DBGP1            | I/O | Terminal for De-Bug 2                                          |
| 39  | PC5               | DBGP0            | I/O | Terminal for De-Bug 1                                          |
| 40  | PC4               | CLK              | OUT | Writing on bord (CLK)                                          |
| 41  | PC3/AN11          | DATA0            | I/O | Writing on bord (DATA0)                                        |
| 42  | PC2/AN10          | ENA/DATA1        | I/O | Writing on bord (ENA/DATA1)                                    |
| 43  | PC1/AN9           | Ack out          | OUT | Ack output for factory mode                                    |
| 44  | PC0/AN8           | STATUS in        | IN  | Status input for factory mode                                  |
| 45  | P86/AN6           | sensor in        | IN  | Light sensor input                                             |
| 46  | P85/AN5           | Reserve          | OUT | (OPEN) (Set Low level)                                         |
| 47  | P84/AN4           | Panel Alarm      | IN  | no use (Panel Alarm)                                           |
| 48  | P83/AN3           | Power Fail-1 IN  | IN  | TV Power Error(3.6V less)/Others (3.6V over)                   |
| 49  | P70/INT0/T0LCP    | LINE OFF         | IN  | Detect AC Voltage Reduction (Normal : High)                    |
| 50  | P71/INT1/T0HCP    | CEC input        | IN  | CEC input                                                      |
| 51  | P72/INT2/T0IN     | CEC output       | OUT | CEC output                                                     |

| PIN | IC specification | Assignment  | I/O | Explanation                                          |
|-----|------------------|-------------|-----|------------------------------------------------------|
| 52  | P73/INT3/T0IN    | Rcin        | IN  | Remote control signal input                          |
| 53  | RES              | RESET in    | IN  | CPU Reset input RESET : Low (and for on-board write) |
| 54  | XT1              | Xin         | IN  | 32.678KHz X'tal input (for clock timer)              |
| 55  | XT2              | Xout        | OUT | 32.678KHz X'tal output (for clock timer)             |
| 56  | VSS1             | Vss         | IN  | GND (0Vdc)                                           |
| 57  | CF1/AN12         | Xti         | IN  | Main clock input (8MHz ceramic oscillator)           |
| 58  | CF2/AN13         | Xto         | OUT | Main clock output (8MHz ceramic oscillator)          |
| 59  | VDD1             | Power IN    | IN  | VDD1 (5Vdc±10%)                                      |
| 60  | P80/AN0          | Key in      | IN  | Panel switch input                                   |
| 61  | P81/AN1          | Reserve     | IN  | GND                                                  |
| 62  | P82/AN2          | PANEL READY | IN  | Panel Ready (for PDP-LG) OK : High NG : Low only PDP |
| 63  | P10/SO0          | VS-ON       | OUT | VS-ON (for PDP-LG) ON : High OFF : Low only PDP      |
| 64  | P11/SI0/SB0      | REG SW1     | OUT | REG SW1 (ON : Low OFF : High)                        |

<Table A>

| 28pin(SEL1) | 29pin(SEL2) | Operation      |
|-------------|-------------|----------------|
| High        | High        | USB download   |
| High        | Low         | Starting Bank1 |
| Low         | High        | Starting Bank2 |
| Low         | Low         | Normal         |

# MAIN SHEET BLOCK DIAGRAM & PERIPHERALS



# SCHEMATIC NOTES

## NOTES ON SCHEMATIC DIAGRAMS

1. All resistance values in ohms K=1,000 M=1,000,000.
2. Resistors specified with resistance value are "1/6DJ."
3. Resistors specified with type of resistor, tolerance and resistance value are "1/4."
4. Unless otherwise noted on schematic, all capacitor values less than 1 are expressed in  $\mu\text{F}$  (Micro Farad), and the values more than 1 are in pF.
5. All capacitors are 50 WV rating unless otherwise noted.
6. Unless otherwise noted on schematic, voltage reading taken with VOM from point indicated to chassis ground. Voltage reading taken using color-bar signal VHF channel 5, all controls at normal. Line voltage at 120 volts. Some voltages may vary with signal strength.
7. Waveforms were taken with color-bar signal and controls set for normal picture. Waveforms marked with an \* may vary with signal strength.
8. The Symbol  indicates a fusible resistor, which protects the circuit from possible short circuits.
9. Parts enclosed with  are related with X-radiation.
10. Isolation border line.  Cold Side  Hot Side
11. Schematic part location numbers may not always match the schematic symbols.  
The schematic symbols and part descriptions are correct and should be used.  
The part descriptions will be listed under the location number in the parts list.



### ELECTROSTATICALLY SENSITIVE DEVICES

Many solid-state devices (especially Integrated Circuits) are Electrostatically Sensitive, and, therefore, require special handling techniques as described under "Servicing Electrostatically Sensitive Devices," on page two in this service literature.

### SERVICE NOTES:

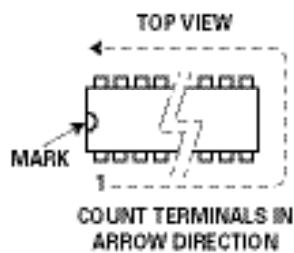
1. When replacing parts on circuit boards, clamp the lead wires to terminals before soldering.
2. When replacing high wattage resistors on circuit board, keep the resistor body 10 mm (3/8) from circuit board.
3. Keep wires away from high voltage and high temperature components.

### PRODUCT SAFETY NOTICE

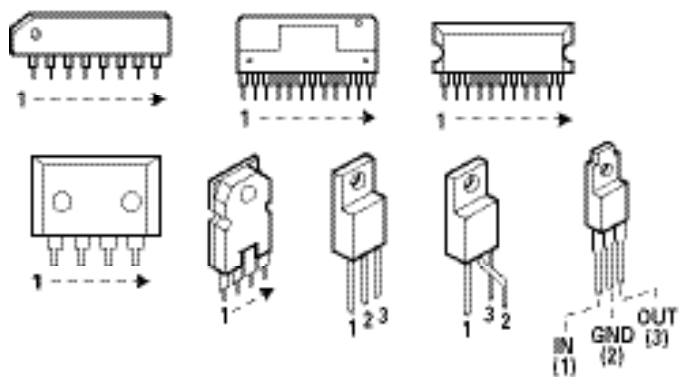
THE COMPONENTS DESIGNATED BY A  ON THIS SCHEMATIC DIAGRAM DESIGNATE COMPONENTS WHOSE VALUES ARE OF SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. SHOULD ANY COMPONENT DESIGNATED BY A  NEED TO BE REPLACED, USE ONLY THE PART DESIGNATED IN THE PARTS LIST. DO NOT DEVIATE FROM THE RESISTANCE, WATTAGE AND VOLTAGE RATINGS SHOWN.

# IC, DIODE, AND TRANSISTOR PIN LAYOUTS

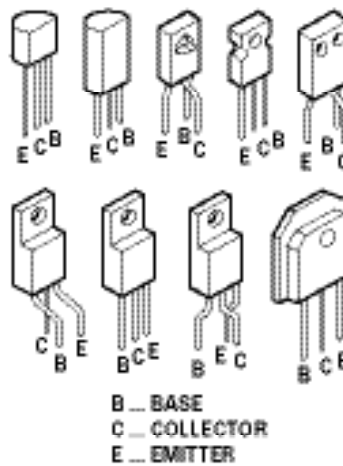
## INTEGRATED CIRCUITS



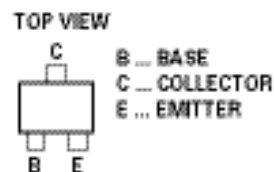
### SIDE VIEW



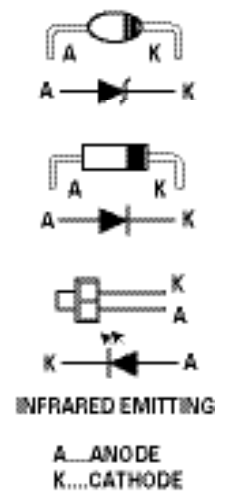
## TRANSISTORS



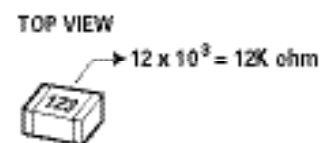
## CHIP TRANSISTORS



## DIODES

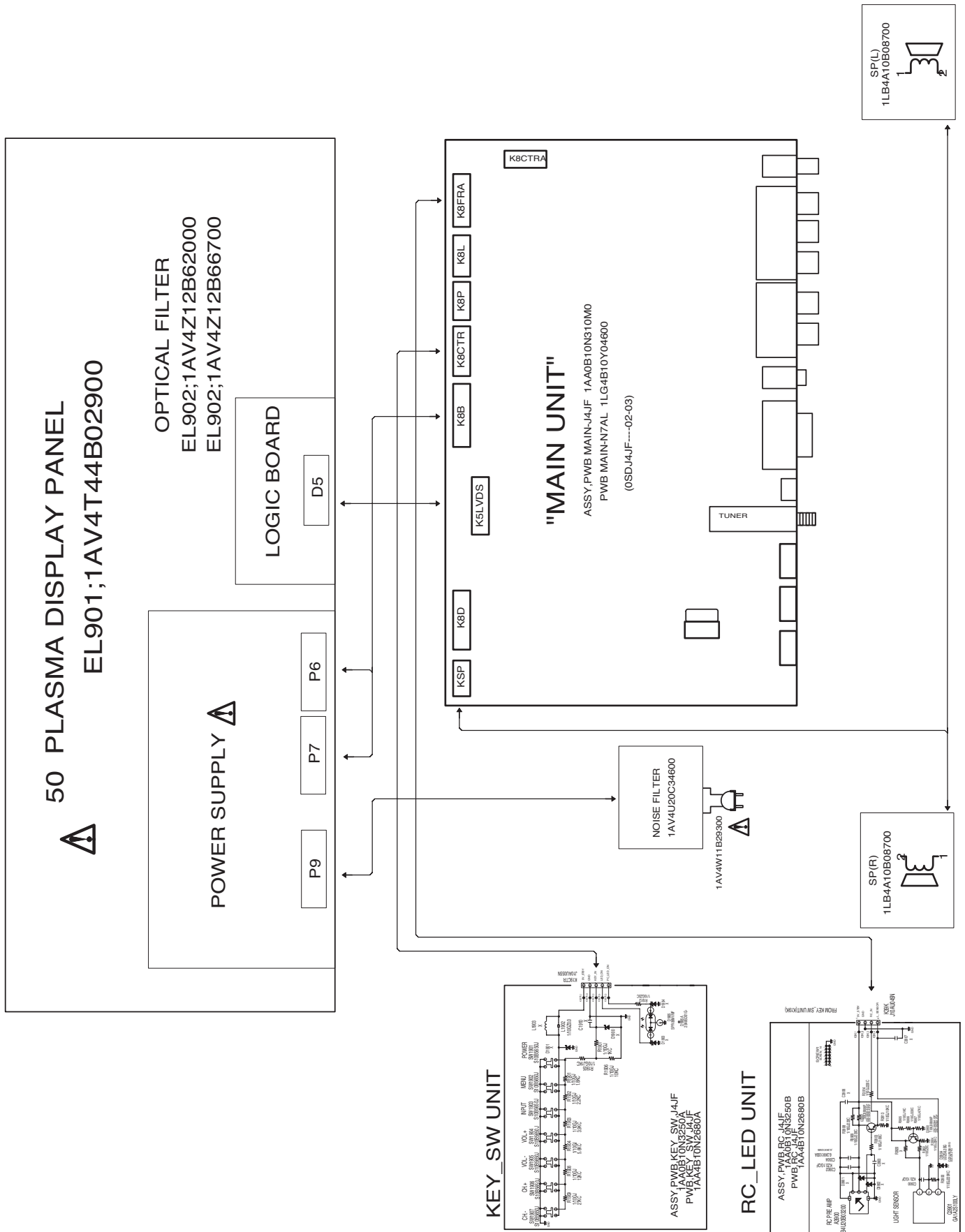


## CHIP RESISTORS



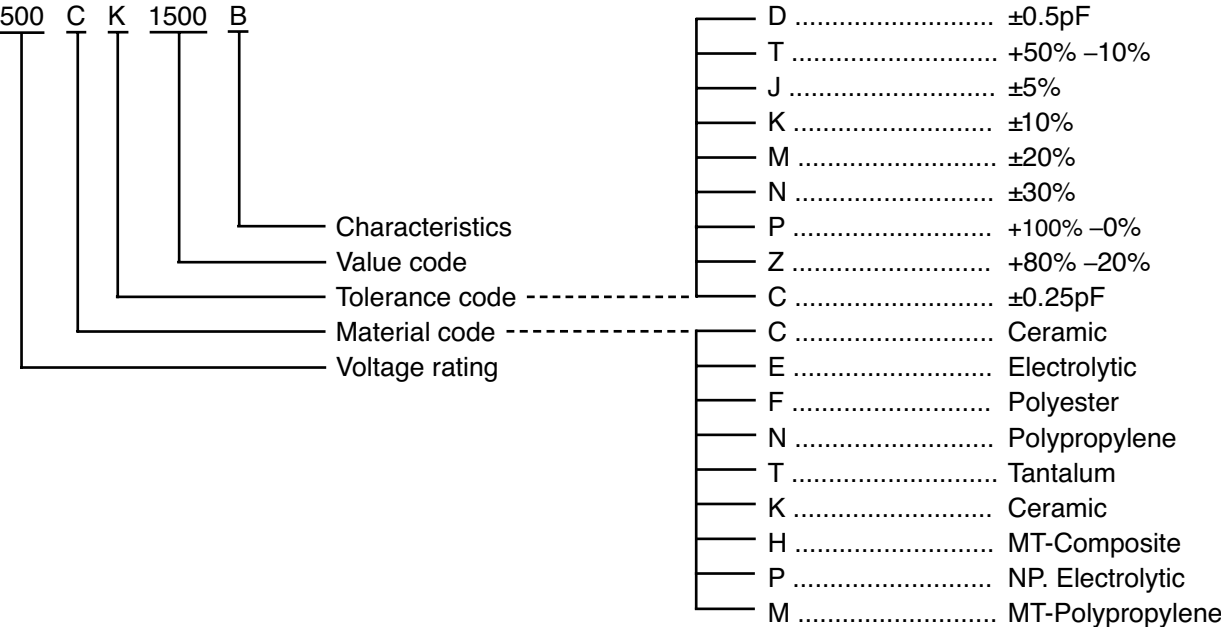


# PC BOARD CONNECTIONS AND LOCATIONS

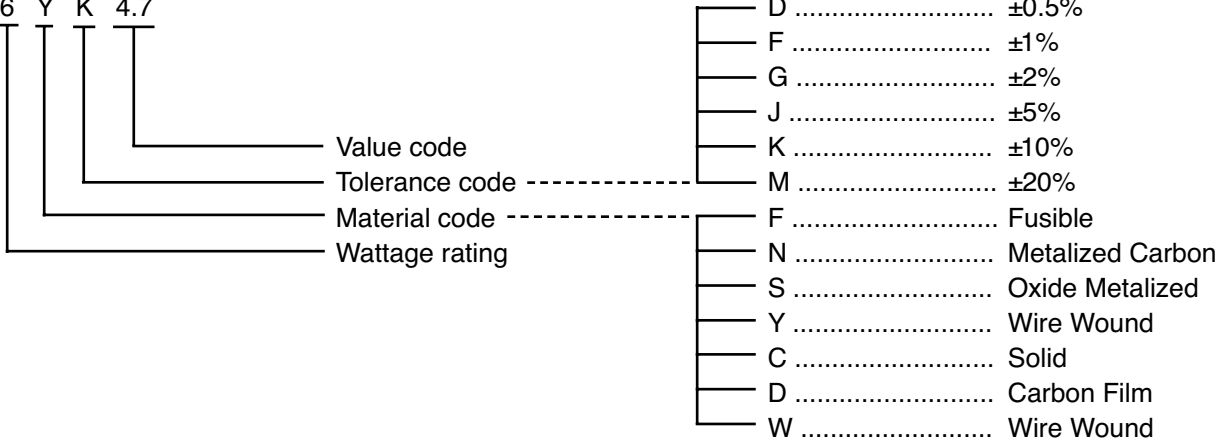


# CAPACITOR AND RESISTOR CODE CHART

## CAPACITOR (Example)



## RESISTOR (Example)



For parts or service contact  
**Sanyo Manufacturing Corporation**  
**P.O. Box 2000**  
**3333 Sanyo Road**  
**Forrest City, Arkansas 72335-2000**





